

THESE COATS DESCRIBED ON PAGE 5

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ALBANY · 1941 · 42

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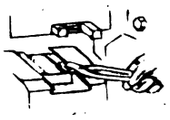
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Now!

Forged Steel Blades in

WARDS MASTER QUALITY KNIVES



Forged blades of vanadium alloy, stainless or high carbon cutlery steel.



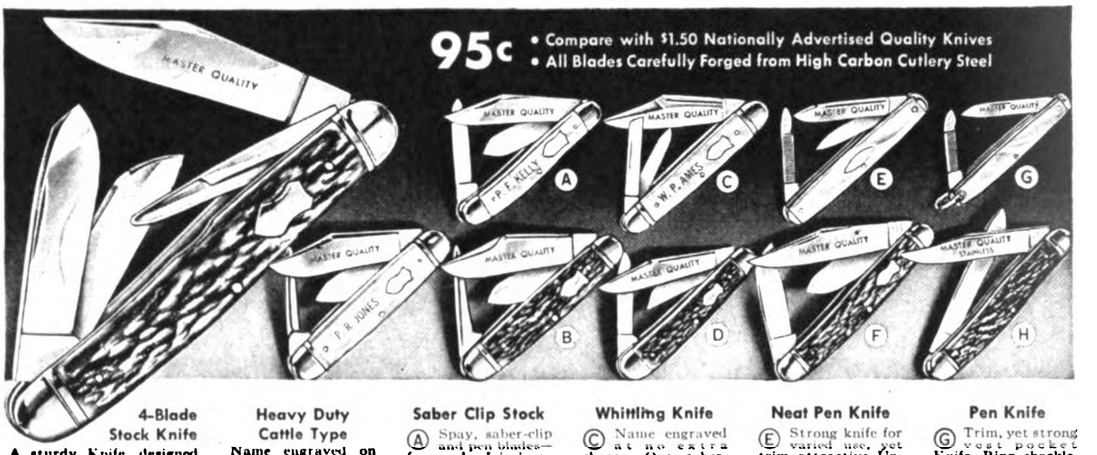
Ground to a sharp true edge that holds. Polished to mirror finish.



Honed by hand for that final touch of keen perfection in the blade.



Inspected by experts to maintain rigid quality standards in every detail.



4-Blade Stock Knife

A sturdy Knife, designed and built to meet a demand for a moderately priced knife that will give dependable service. We believe you would pay $1.75 in most stores for equal quality and utility.

Four blades are forged of fine heat-treated high-carbon steel; hand honed to a keen lasting edge and mirror polished. The blades are master clip, spay, sheepsfoot and punch-awl styles. Non-rusting nickel silver lining and trim. Real bone stag handle. Knife 3⅞ inches long. Shipping weight 3 oz.

84 A 122.....**95c**

Heavy Duty Cattle Type

Name engraved on handle at no extra cost. Has three blades forged from heat-treated high carbon steel, hand honed to a fine lasting edge. Master clip, spay, and punch-awl blades.

Lining and trim are of non-rusting nickel silver. Handles attractive imitation pearl plastic. Overall length 3⅝ inches. Shipping weight 5 ounces. *Print Name* you wish engraved on handle.

84 A 120.....**95c**

Saber Clip Stock

Ⓐ Spay, saber-clip and pen blades—forged. Lining, trim nickel silver. Unbreakable imitation pearl handle. 3⅜ in. No extra charge for engraving name on handle. Ship. wt. 4 oz. *Print Name Wanted.*

84 A 139.....**95c**

Senior Cattle

Ⓑ Real bone stag handle. Clip, spay, and punch blades, forged—high carbon steel—honed. Nickel silver lining, trim. 3⅝ in. long. Ship. wt. 5 oz.

84 A 121.....**95c**

Whittling Knife

Ⓒ Name engraved at no extra charge. One saber-clip, 2 pen blades—I with fine tracing point. All forged. Lining, trim, nickel silver. Red unbreakable handle. 3⅜ in. Ship. wt. 4 oz. *Print Name Wanted.*

84 A 133.....**95c**

Sheffield Type

Ⓓ A three-bladed Knife with real bone stag handle. Master clip, pen, and sheepsfoot blades—forged. Nickel silver lining, trim. 3⅝ in. Ship. wt. 4 oz.

84 A 134.....**95c**

Neat Pen Knife

Ⓔ Strong knife for varied use, yet trim, attractive. Unbreakable imitation pearl handle. Forged pen, spear and manicure-file blades. Lining and trim are nickel silver. 3⅛ inches long. Ship. wt. 3 oz.

84 A 147.....**95c**

Senior Stock

Ⓕ Full size—3⅞ in. Forged high carbon steel blades—master clip, spay and sheepsfoot. Nickel silver lining, trim. Real bone stag handle. Ship. wt. 4 oz.

84 A 135.....**95c**

Pen Knife

Ⓖ Trim, yet strong coat pocket Knife. Ring shackle. Cutting blade and combination nail-file-cleaning-point. Mother of Pearl handle. Nickel silver lining, trim. 2⅝ in. long. Shipping weight 2 oz.

84 A 123.....**95c**

For Sportsmen

Ⓗ Long stainless forged blades—1 slender clip-point; 1 spay-point skinning type. Bone-stag handle. Nickel silver lining trim. 3⅞ in. Ship. wt. 5 oz.

84 A 145.....**95c**



Stock Pattern Knife

ree tough vanadium steel ged blades—of clip, spay sheepsfoot styles. A h quality Knife that ll take a razor edge and sy sharp a long time. nd honed and polished. al bone-stag handle. ckel silver lining and im—won't rust. 3⅞ in. g. Ship. wt. 4 oz.

A 117.....$1.19

Cattle Style Knife

Punch-awl, clip and spay blades forged of tough vanadium alloy steel for sharper, longer-lasting edges. Unbreakable pearl-like plastic handle. Name engraved on handle at no extra charge. Nickel silver lining, trim, 3⅝ in. long. Ship. wt. 5 oz. *Print Name.*

84 A 118.....**$1.19**

Premium Stock Knife

Saber clip, pen and spay blades forged of tough vanadium alloy steel to hold keen edges. Unbreakable red plastic handle. No extra charge for engraving name on handle. Non-rusting nickel silver trim, lining, 3⅜ in. long. Ship. wt. 4 oz. *Print Name.*

84 A 119.....**$1.19**



4-Blade Cattle

An all-around Knife for hard use. Master clip, spay, sheepsfoot and punch-awl blades forged of stainless steel, honed to keen lasting edge. Real bone-stag handle. Nickel silver trim, lining. 3⅝ in. Ship. wt. 5 oz.

84 A 115.....**$1.39**



Craft Knife

For whittling, carving. Forged stainless saber, cutoff-tracing, standard pen blades. Bone stag handle. Nickel silver lining, trim. 3⅝ in. Wt. 4 oz.

84 A 114.**$1.39**

Chain Knife

Pen style. Forged stainless steel pen blade; carbon steel nail file. Real mother of pearl handle. Nickel silver lining, trim. Shackle. Length, 2⅝ in. Shipping wt. 2 oz.

84 A 113...**$1.39**

Rancher DeLuxe

Top quality in full size premium stock Knife. Finely made. Forged stainless steel clip, spay, sheepsfoot, punch-awl blades. Honed. Deer horn stag handle. Nickel silver lining, trim. Milled back. Ship. wt. 5 oz

84A112—3⅛ in.**$1.79**

Wards Best Pen Knives

(Left)—Stainless spear, pen blades. Carbon steel nail file. Nickel silver lining, trim. Real mother of pearl handles. With purse. 3⅛ in. long.

84 A 111—Ship. wt. 2 oz **$1.79**

(Right)—Finest workmanship, materials. Spear and pen blades forged stainless steel; long nail file carbon steel. Real mother of pearl handles; with shackle. Milled nickel silver lining. 2¾ in. long.

84 A 110—Ship. wt. 2 oz.....**$1.79**



Big Value Cattle Knife—4 Blades

ttractive amber tenite lastic handle is unbreakble. Clip, punch-awl, pay and sheepsfoot lades are made of good rade steel, carefully oned. Brass lined. Nonusting trim. A serviceble knife. 3⅝ inches ong. Shipping weight 4 unces.

4 A 160.....**49c**

With Name Engraved

ame knife as described, ictured above. *Print ame Wanted.*

4 A 190.....**55c**

Stock Knife

Ⓙ Red plastic handle. Blades—spay, clip, pen. Brass lined. Nickel silver trim. 3⅝ in. Ship. wt. 4 oz.

84 A 305.....**55c**

With name. *Print Name.*

84 A 161.....**49c**

3-Blade Cattle Knife

Ⓛ Clip, spay and punch-awl blades. Unbreakable plastic stag type handle. Brass lining. Nickel silver trim. 3⅜ in. long. Shipping weight 4 oz.

84 A 163.....**49c**

Stainless Pen Knife

Ⓝ Spear point and fine pen style stainless steel blades. Unbreakable imitation pearl handle. Brass lined. Nickel silver trim. 2⅜ inches long. Shipping weight 2 oz.

84 A 165.....**49c**

5-in-1 Camp Knife

Ⓚ Spear; punch; can-opener; Combination cap-lifter—screwdriver. Chain. Im. pearl handle. 3⅝ in. Wt. 5 oz.

84 A 162.....**49c**

With name. *Print Name.*

84 A 311.....**55c**

Chain Jack Knife

Ⓜ Spear, pen blades. Imitation pearl handle. Brass lining. Nickel silver trim. 3½ in. long. Ship. wt. 4 oz.

84 A 164.....**49c**

With name. *Print Name.*

84 A 304.....**55c**

Pony Jack Knife

Ⓟ A fine, trim little curved Jack Knife. 2 blades—saber clip; fine pen. Unbreakable attractive imitation French Horn handle. Brass lining, nickel silver trim. 2⅜ in. Ship. wt. 3 oz.

84 A 166.....**49c**



Unusual Quality At This Low Price

Four-bladed cattle Knife with clip, sheepsfoot, spay and punch-awl blades, carefully made from high grade steel—honed to sharp edges. Excellent value in a low priced knife for general utility needs—you would expect it to cost much more in most stores. Unbreakable imitation stag handle. Nickel silver trim and lining. 3⅝ in. long.

Shipping weight 5 ounces.

84 A 170.....**69c**

Sportsman Special

Ⓡ Saber clip; long spay-type skinning blades. Imitation French horn handle. Nickel silver lining, trim. 3⅜ in. No extra charge for name. *Print Name.* Ship. wt. 4 oz.

84 A 158.....**69c**

Cattle Knife

Ⓢ Real bone stag handle. Blades: clip; spay; punch-awl. Nickel silver lining, trim. 3⅜ in. Ship. wt. 5 oz.

84 A 151.....**69c**

Slender Pattern

Ⓣ Stock Knife. Narrow clip, pen, spay blades. Unbreakable red plastic handle. Nickel silver lining, trim. 3⅜ in. No extra charge for engraving name on handle. Ship. wt. 5 oz. *Print Name Wanted.*

84 A 156.....**69c**

Heavy Duty Jack

Ⓤ Sturdy master clip and small pen blades. Real bone stag handle. Nickel silver lining, trim. 3½ in. long. Ship. wt. 4 oz.

84 A 155.....**69c**

Dog Leg Jack

Ⓥ Clip, pen blades. Unbreakable imitation pearl handle. Nickel silver lining, trim. 3-in. long. No extra charge for engraving name on handle. Ship. wt. 3 oz. *Print Name.*

84 A 154.....**69c**

2-Blade Pen Knife

Ⓦ Bone-stag handle. One spear blade, 1 small pen blade. Nickel silver lining, trim. Length, 3½ in. Ship. wt. 2 oz.

84 A 157.....**69c**



Jack With Chain

A satisfactory first Knife for a boy. Husky spear type and small pen blades. Attractive mottled handle is unbreakable. 3 in. long. Polished metal trim. Ring and chain included. Shipping weight 3 oz.

84 A 174.....**19c**

Popeye Knife

Unbreakable red composition handle. Good steel blades—spear, pen types. Strong ring and chain about 14 inches long. Jack knife pattern. Serviceable, pleasing knife for a boy. 3 inches long. Shipping weight 4 oz.

84 A 477.....**19c**



Big Value Jack

Unbreakable red Tenite handle. Small pen, spear blades. Brass lining. Non-rust trim. 3⅜ in. long. Ship. wt. 4 oz.

84 A 170.....**25c**

Same knife with name, *Print Name.*

84 A 170.....**31c**

Even-End Jack

Sturdy knife. Clip, small pen blades. Green Tenite handle. Brass lined Nickel silver trim. 3⅜ in. long. Ship. wt. 3 oz.

84 A 171.....**25c**

Same knife with name, *Print Name.*

84 A 185.....**31c**

Curved Jack

Clip, small pen type blades. Imitation pearl handle. Brass lining. Nickel silver trim. 3⅜ in. long. Ship. wt. 3 oz.

84 A 173.....**25c**

Same knife with name, *Print Name*

84 A 177.....**31c**

Heavy Jack

Big, straight pattern Knife. Large clip, small pen type blades. Plastic stag type handle. Brass lining. Nickel silver trim. 3½ in. long. Sturdy knife. Shipping weight 4 oz.

84 A 172.....**25c**

Four-in-One

Outdoor Knife. Spear blade; can opener; combination screwdriver-cap lifter. Unbreakable Tenite handle. Shackle. 3⅜ in. Non-rust lining, trim. Ship. wt. 4 oz.

84 A 180.....**25c**



Barlow Style

Large clip blade—small pen blade. Flat, heavy handles—real bone. Polished steel trim. Chain included. 3¼ in. long. Well made—an unusual value at this low price. Shipping weight 4 oz.

84 A 187.....**35c**

3-Blade Cattle

Clip, punch-awl, spear blades—good steel—keen edges. Unbreakable blue Tenite handle. Nickel silver trim; brass lining. 3⅜ in. Ship. wt. 4 oz.

84 A 168.....**35c**

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CHECK THESE FEATURES OF WARDS Sea King Motor[redacted]



N.O.A. Certified Horsepower

Tested under the supervision of the Pittsburgh Testing Laboratory, the official laboratory of the National Outboard Association (N.O.A.). Certified brake horsepower assures you that your SEA KING develops the labeled horsepower. Power output is measured with a dynamometer, the most accurate way.



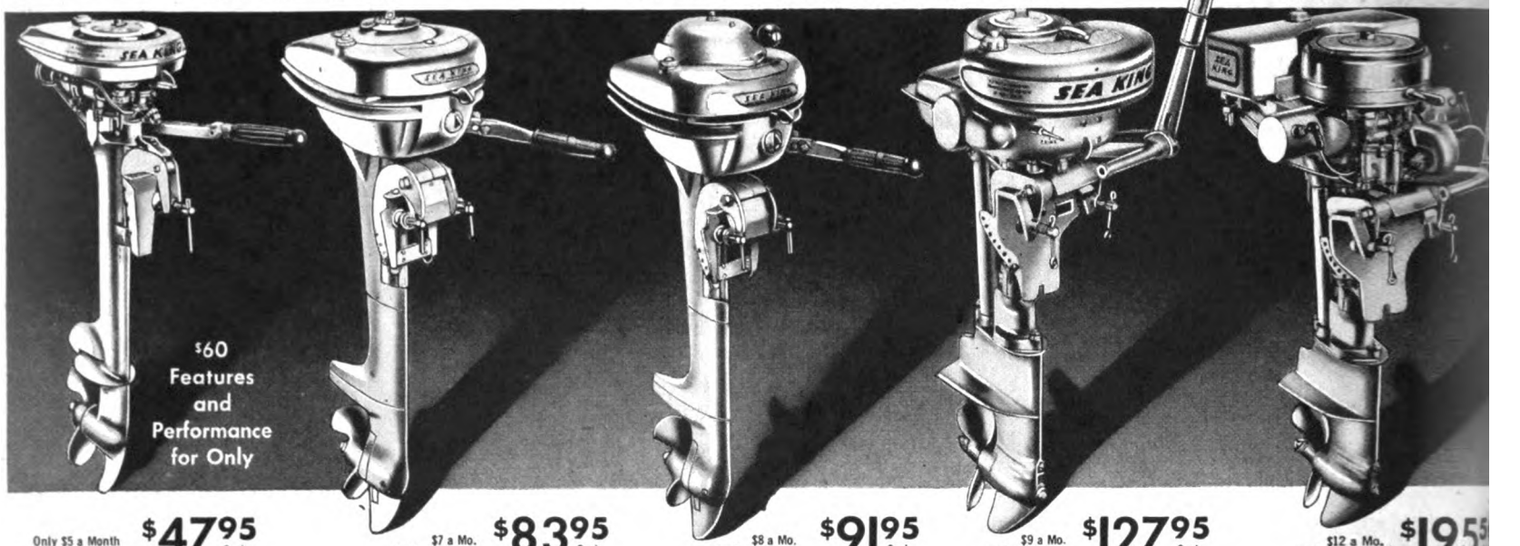
All Underwater Parts Treated to Resist Corrosion

ALL SEA KINGS have positive water cooling of the type best suited to motor. They have *Alrok* treated aluminum and *Parkerized* steel underwater parts and cylinder water jackets that resist corrosion. Streamlined Aluminum underwater units. Phosphor bronze bearings. Aluminum alloy pistons. Chrome nickel steel drop-forged crank shafts. Grease-seals in the underwater units keep grease in—water out. Underwater Exhausts on all SEA KINGS for quiet, smooth operation. Sea Kings tilt automatically when striking obstructions, or beaching. Automatic Lubrication—positive type, oil mixed with gasoline



Lightweight

SEA KINGS are made principally of the best strong lightweight aluminum alloys. They are lighter per horsepower, more compact and easier to carry than many other motors. SEA KINGS are built in America's largest and best Outboard factories by the finest outboard engineers.



Only $5 a Month On Terms—See Inside Back Cover **$47.95** Cash 460 A 8819

$7 a Mo. On Terms—See Inside Back Cover **$83.95** Cash 160 A 8826

$8 a Mo. On Terms—See Inside Back Cover **$91.95** Cash 160 A 8827

$9 a Mo. on Terms—See Inside Back Cover **$127.95** Cash 160 A 8811

$12 a Mo. on Terms—See Inside Back Cover **$195.5[illegible]** 160 A 88[illegible]

3.1 Horsepower Large Single

3.1 N.O.A. Certified Brake H.P. at 4000 R.P.M. Gives speeds of 2 to 9 M.P.H. New dual jet float feed carburetor. Speeds up to 9 M.P.H. Runs smoothly at slow speeds. Weighs 33 lbs. Spring mounted to absorb vibration.

Streamlined. Aluminum gas tank encircles flywheel—safer. Carrying handle.

Self-pilot holds boat on its course. "Vibrationless" steering. Rope starting. Single lever speed control. Gas tank holds 2½ qts.—runs 2½ hrs.

Motor Facts. Flywheel magneto. Aluminum piston and conn. rod. Disp. 5.5 cu. in. Bore 2 in. Stroke 1¾ in. Rotex pump. Full-weedless propeller. See "Shipping Notice."

460 A 8819—Ship. wt. 48 lbs. . . . **$47.95**

60 A 8799—Extra Shear Pins for Above. Ship. wt. 2 oz. Two for. **5c**

5.0 Horsepower Alternate Firing Large Twins

5.0 N.O.A. Certified Brake H.P. at 4000 R.P.M. Give speeds of 1 to 12 M.P.H. More power for family boats and speed tender—2-jet auto type Float Feed carburetor assures smooth performance at all speeds. Entire motor rubber mounted to reduce vibration.

New Alternate Firing. Balance power impulses permit maximum smoothness with a minimum of vibration at all speeds—motor may be throttled down for trolling.

New Streamlined Design. Aluminum cover and gas tank completely encloses power head and encircles flywheel—safer, cleaner, no oil parts exposed. Streamlined aluminum single column under water unit. Gas capacity 1 gallon—enough for 2½ hrs. running. Vibrationless steering—arm makes handy carrying handle. Flywheel magneto.

Simplified Operation. PATENTED SELF-PILOT keeps boat on its course. Dial type carburetor adjustment. Single spark lever controls speed and stops motor.

Motor Parts. Full-weedless propeller. Alum. conn. rods. Piston Disp. 8.84 cu. in. Bore 1 15/16 in. Stroke 1½ in. Rotator water pump. See "Shipping Notice" below.

5 H.P. Standard Large Twin

Rope starting. Shear pin protects propeller. Act. wt. 42 lbs. Ship. wt. 70 lbs.

160 A 8826—Cash Price. **$83.95**

60 A 8830—Extra Shear Pins. For either 5 H.P. Ship. wt. 2 oz. Two for. **5c**

5 H.P. DeLuxe Large Twin

New EASY PULL Starter is always wound and ready. New rubber clutch protects propellor. Other features same as Std. Model. Act. wt. 44 lbs. Ship. wt. 75 lbs.

160 A 8827—Cash Price. **$91.95**

IMPORTANT: Sea King Motors contain large quantities of aluminum which is a vital military material. Wards cooperating with the National Defense Program may find it necessary to substitute parts made from other metals in Sea King Motors. If such changes are made and the motor you receive is not as described the usual guarantee of complete satisfaction or all your money back will still hold.

SHIP. NOTICE: Single cylinder motors are *Mailable*. Others *Not Mailable*, shipped by freight or express only. All motors shipped promptly from Stock at Albany.

8.5 Horsepower SuperTwin

8.5 N.O.A. Certified Brake H.P. at 4000 R.P.M. Gives speeds of 3 to 25 M.P.H. Weighs 78 lbs. Extra power and speed for larger family boats.

Streamlined Design. Enclosed power head. Gas tank holds 1⅛ gal. Runs ¾ to 1 hour. Carrying handle. Size 38½ by 13 by 15 inches.

Patented Self Pilot. Holds boat on its course. Fast rope starting. Twist grip throttle and spark lever.

Motor Facts. Bronze semi-weedless propeller. Flywheel magneto. Rotary valve—opposed firing cylinders. Bore 2¼ in. Stroke 1⅞ in. Piston dis. 14.9 cu. in. 2-jet auto type carburetor. Centrifugal water pump. See "Shipping Notice" below.

160 A 8811—Ship. wt. 125 lbs. **$127.95**

60 A 8795—Extra Shear Pins. Ship. wt. 2 oz. Two for. **5c**

Build Your Order Up to $10 and Use Wards Payment Plan. See Inside Back Cover For Details.

15.2 Horsepower Giant

15.2 N.O.A. Certified Brake H[illegible] power at 4000 R.P.M. Gives speeds to 30 M.P.H. Surging power and [illegible] ing speed for large runabouts and [illegible] outboard hydroplanes. Weighs [illegible]

Practical Design. No extras to [illegible] its weight or reduce speed. Power [illegible] easily accessible for quick mixture [illegible] justments. Handy carrying [illegible]

Fully Controlled Operation. [illegible] pilot steering—a patented [illegible] Rope starting. Twist grip throttle [illegible] steering arm. "Vibrationless" [illegible] Combination spark and stop [illegible]

Motor Facts. Bronze semi-weedless propeller, stronger than aluminum. Flywheel magneto. 2 jet auto-type carburetor with positive primer [illegible] tary valve. Aluminum Pistons [illegible] roller bearing connecting rods. Disp. [illegible] cu. in. Bore 2½ in. Stroke 2½ in. See "Shipping Notice".

160 A 8818—Ship. wt. 152 lbs. Cash. . . . . [illegible]

60 A 8840—Extra Shear Pins [illegible] above. Ship. wt. 2 oz. Two for. . . . . [illegible]



Copper Coated Air Rifle Shot

(A) For the best performance and accuracy—use this famous "Bullseye" steel Air Rifle Shot. Gives better shooting, more accuracy, and is better for your rifle because all the pellets are the same round size. Each tube contains 200 or more copper coated steel pellets. Shot can be used with all Air Rifles.

13c 4 tubes

60 A 859—Ship. wt. 4 tubes 13 oz. 4 tubes. **13c**

Rifle Type Rear Peep Sight

(B) Looks like sight on regular full sized rifles. Shaded eyepiece helps improve marksmanship. Disc removable to give larger opening if desired. Easily attached on stock at rear of barrel. For King and Daisy Air Rifles except No. 25, Champion, Golden Eagle, Carbine and Double Barrel Air Rifles. Shipping weight, 2 oz.

12c

60 A 855—Each. . . **12c**

Wards Guarantee Satisfaction or Your Money Back—See Page 1165.

King 1000-Shot Lever Action Repeater

$1.69 1000 Shot

(C) Easy lever action pumps shot into chamber for next shot. Walnut finished stock with rifle style pistol grip. Blued finish barrel. Knife blade front sight, open rear sight. Actual weight 2 lbs. 6 oz. Length overall 35¼ in.

560 A 652—1000-Shot. Ship. wt. 3 lbs. 8 oz. **$1.69**

(D) King 500-Shot Lever Action Repeater. Same smooth action as Air Rifle above. Straight grip Walnut finish stock. Act. wt. 2 lbs. Length overall 31 in.

560 A 647—500-Shot. Ship. wt. 3 lbs. 4 oz. **$1.59**

King Single-Shot Air Rifle. (Not shown). Same as above except single shot. Act. wt. 2 lbs. Length overall 31 in.

560 A 645—Single-Shot. Ship. wt. 2 lbs. 8 oz. **98c**

$1.59 500 Shot

Daisy Red Ryder 1000-Shot Carbine

$2.75 Red Ryder

(E) Famous Red Ryder brand on stock. Western saddle ring, with 16-inch leather saddle thong. "Gold" color barrel bands, front sight. Daisy fast 1000-shot "lightning loader." Walnut finish stock—length 36 in. Blued steel barrel. Act. wt. 2 lbs. 10 oz.

560 A 664—Ship. wt. 3 lbs. 12 oz. **$2.75**

"Lightning Loader" 500-Shot Carbine

$2.29 Daisy Carbine

(F) Daisy Carbine style Repeater. A regular two-fisted Western type . . . looks like a high powered rifle used by Indian Scouts. Walnut finished stock. Blued steel barrel. Length 33 in. Act. wt. 2 lbs. 6 oz.

560 A 648—Ship. wt. 3 lbs. 8 oz. **$2.29**

Buck Jones Daisy 60-Shot Repeater

$3.25 Buck Jones

(G) "Buck Jones" engraved on receiver. Natural finish stock with compass and sundial. Pump action 36 in. long. Blued steel barrel. Front, rear sights. Factory tested. Act. wt. 2 lbs. 8 oz.

560 A 646—Ship. wt. 3 lbs. 4 oz. **$3.25**

Daisy Model 25 50-Shot Repeater

$4.25 Model 25

(H) Fast action. Cocks by pulling forend slide [illegible] stock. Screw adjustable rear sight. Pop tol grip Walnut stock. Gun Blued finish [illegible] engraved jacket. Act. wt. 3 lbs. 4 oz. 38 in. long.

560 A 643—Ship. wt. 3 lbs. 12 oz. **$4.25**



Leather Washer Handle

(J) Forged, high carbon, chrome vanadium steel blade extends through handle. Saber ground. Beveled back. Shaped handle, Red and Black leather and brass washers. Alum. butt. Leather sheath. Overall, [illegible] in. Wt. 8, 10 oz.

97c 4½-in. blade

60 A 1883—4½ in. blade. **97c**

60 A 1882—5¾-in. blade. Each. **$1.45**

Pearl Type Handle

(K) Fine quality composition pearl handle with attractive washers at each end. 4½ in. saber ground, high carbon chrome vanadium cutlery steel blade extends thru the handle for extra strength. Aluminum butt piece. Genuine leather sheath with belt loop. Overall length 8½ in. Wt. 8 oz.

$1.19

60 A 1885. . . . . **$1.18**

Buck-Horn Handle

(L) Saber ground 4¼-in. blade of best quality, high carbon chrome vanadium-steel. Extends through handle. 1-piece buck-horn handle with Black and Red fiber and metal rings at ends. Aluminum butt. 1-piece tubular type leather sheath. Overall length 7⅞ in.

$1.49

60 A 1880—Ship. wt. 9 oz. **$1.40**

Finnish Style Knife

(M) Keen Chrome steel 4¼-in. saber ground blade extends through handle. Has blood groove. Form-fitted Orange color composition handle. Aluminum butt. Beautifully tooled tubular leather sheath—reinforced to hold shape. Overall length 7⅞ in.

$1.69

60 A 1884—Ship. wt. 6 oz. **$1.60**

DeLuxe Quality Knife

(N) 5¼-in. saber ground blade of best quality vanadium steel. 1-piece genuine Stag handle with Black and Red fiber and metal rings at each end. Hand tooled Mahogany color leather sheath with snap fastened loop. White Rawhide laced. Overall 9½ inches.

$2.95

60 A 1895—Ship. wt. 7 oz. **$2.95**

Western Style Knife

(P) A popular utility knife. 1-piece polished, 4½-in. high carbon chrome steel blade with beveled back; stays sharp. Black molded bakelite handle with Red washers at blade end. Overall length 8¼ inches. Smooth leather sheath with snap fastening loop.

49c

60 A 1890—Ship. wt. 10 oz. **49c**

"Marbles'" Ideal

(R) Laminated leather handle. Forged steel blade with blood groove. Aluminum butt cap. Leather sheath. Ship. wts. 10, 11, 11 and 13 oz.

$1.98

Art. No.	Blade	Each
60A1875	4¼ in.	$1.98
60A1876	5 in.	2.25
60A1877	6 in.	2.45
60A1878	7 in.	2.69

Pocket Style

(S) A husky folding type knife for all hunters. Two 4 inch Blades that fold into Genuine buck-horn handle. High carbon chrome vanadium steel blades; one saber ground, other [illegible] skinning. Nickel silver bolsters at ends of handle. Length closed 5¼ inches.

$1.75

60 A 1[illegible]—Ship. wt. 6 oz. **$1.75**

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Carry Home Made Lunches...Kitchen Fresh!



Wards BEST Quality Lunch Kit

$1.19 Complete

ox Has Sanitary Lithographed White Finish
nside, Black Outside—Easy to Clean.
ne-Pint Vacuum Bottle Clamps in Lid of
arge Size Metal Lunch Box (see above).

ether you want a Lunch Kit for work, for the children to take school, or for use on picnics and outings you can't find a er value than Wards Best Quality Kit. Strong metal box with nded corners; large size, 10¼ by 4¾ by 7¼ inches. Made to d long hard wear and holds enough food for a hearty eating king man or for two children. Ventilating slots allow air ulation—food retains its kitchen flavor and freshness. Sturdy al handle fold s automatically when not in use. Double locks cover securely tightened. Strong hinges. Made in America. de Supreme Quality one-pint vacuum bottle (similar to A 8911 above at right) has cap with handle; can be used as a Bottle proved by test to keep coffee hot for 24 hours in weather and iced beverages cool for as long as 72 hours in mer heat.

A 8900—Lunch Box and Vacuum Bottle. Ship. wt. 4 lbs. $1.19
A 8902—Lunch Box Only. Ship. wt. 2 lbs. 12 oz. 48c

Genuine Thermos Kit

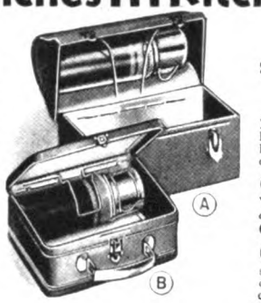
$1.49 Complete with bottle

- Collapsible Metal Handle.
- Double Locks, Strong Hinges.

Large metal box with smooth rounded corners. Sanitary White lithographed finish inside. Black finish outside. Ventilating slots. Size 10¼ by 4¾ by 7¼ in.—holds enough food for a hard working man or for 2 children. Name card holders on both ends. Thermos pint vacuum bottle like 60 A 8905 below, clamps in lid.

60 A 8901—Lunch Box and Genuine Thermos No. 34 A Pint Vacuum Bottle. Complete. *Postpaid*. . . . $1.49





Popular School Lunch Kits

$1.09 Choice A or B

- **Complete with Wards ½-Pint Supreme Quality Vacuum Bottle Inside.**
- **Rustproof Metal Boxes.**

Made especially for children. Sanitary lithographed white inside finish. Ventilating slots banish stale odors. Bottle caps have handles for use as cups.

(A) **Round Top Style Kit.** Dark Green lithographed outside. 9x4½x6½ in. Vacuum bottle clamps in lid. *Name card holder on end.*

60 A 8907—Ship. wt. 2 lbs. 12 oz. . . $1.09

(B) **Improved Box-Type Kit.** 2-tone Gray and Green lithographed outside. Size 8½x6½x3½ in. Vacuum bottle clamps in body. Snap lock, no name card holder.

60 A 8908—Ship. wt. 2 lbs. 12 oz. . . $1.09



No. 34-A Round Style Bottle

98c 1-Pint Size

- Nationally Advertised Make.
- Red Beetleware Cup-Cap.
- Pebble Finish Metal Case.

Keeps liquids hot 24 hours in winter-weather or cold up to 72 hours in summer. Metal shoulder—replaceable silvered glass filler. Tan color with Red and Black Striping.

60 A 8905—1-Pint Size with one Red cup-cap only *Postpaid*. Each. 98c
60 A 8906—1-Quart Size with one Red cup-cap and three extra Ivory Beetleware cups. *Postpaid*. Each. $1.98

Wards Supreme Vacuum Bottles

69c ½-Pt. Size

- Proven by Exhaustive Tests.
- Sturdy Metal Cup-Cap.
- Rustproof Metal Case.

Keeps coffee hot 24 hours or iced beverages cold up to 72 hours. Metal shoulder. Rich 2-tone Green pebble finish. Strong silvered double wall glass filler. Cork.

60 A 8910—½-Pint Size. Shipping weight 1 lb. 10 oz. Each. 69c
60 A 8911—1-Pint Size. Ship. wt. 2 lbs. 75c
60 A 8912—1-Quart Size. Shipping weight 3 lbs. 4 oz. Each. $1.25

Wards Time Payment Plan Enables You To Buy Everything You Need Now and Pay as You Use It.

$2 A MONTH BUYS ALL THIS:

Two Burner Camp Stove	$3.98
Supreme Quality Camp Cot	2.69
Kapok Filled Camp Cot Pad	2.29
I-Quart Size Vacuum Bottle	1.25
DeLuxe Pack Sack	2.95
Total	$13.16

You can make up your own order like example above. See Inside Back Cover.

Campers and Sportsmen
A complete line of Tents, boats, motors and other camping equipment appears in Wards 1941 Spring and Summer Catalog.



As Low As **57c** ½-Pint

Wards Glass Refills for Vacuum Bottles

Strong double wall silvered glass. Fit only Wards Supreme Quality; Genuine Thermos; Icy-Hot; and Keepsit bottles—made since 1935. Cork included. Shipping weights respectively: ½ and 1-Pint, 1 lb. 12 oz.; 1-Quart, 2 lbs. 10 oz.

Article Number	Fits Bottle Size	Length Overall	Diameter Filler	Diameter Neck	Price Each
60 A 8920	½ pt.	6½ in.	2¼ in.	1½ in.	57c
60 A 8921	1 pt.	8 in.	2¾ in.	1½ in.	59c
60 A 8922	1 qt.	11¼ in.	3¼ in.	1¾ in.	98c

Vacuum Bottle Stopper



New Adjustable Rubber Type, Sanitary. Fits half pint, pint and quart bottles. Leakproof.

60 A 8950—Ship. wt. 2 oz. Ea. . 15c

Vacuum Bottle Corks. (Not shown.) Ship. wt. each 2 oz.
60 A 8918—For ½ and 1-pint vacuum bottles. Each. 4c
60 A 8919—For 1-quart vacuum bottles. Each. 4c

PORTABLE
Camp Stoves



Made by Prentiss-Wabers

Hot Faster than City Gas — Easy to Use — Easy to Carry

$3.98 Ea. Steel Grate

$6.39 Ea. Iron Grate

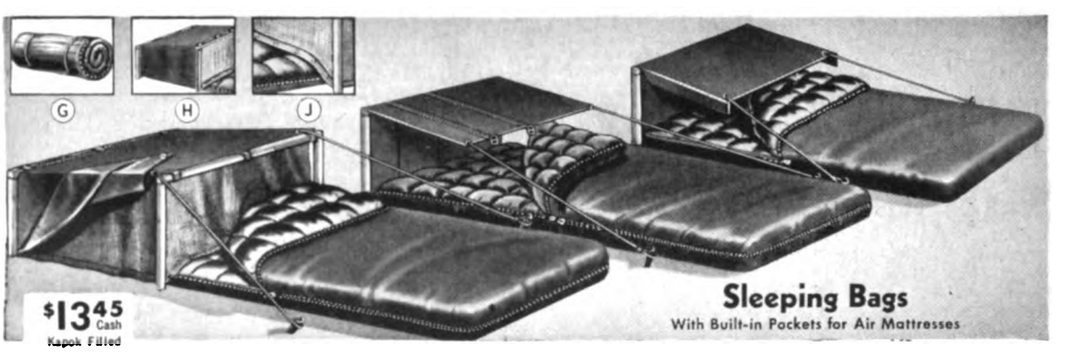
Make camping and picnics more fun. No delay, the two large ring-type burners on these Gasoline Camp Stoves light instantly. Made by Prentiss-Wabers in new, modern design with smooth, rounded edges and corners. Two valves regulate pressed steel ring type burners separately. Electrically welded, rust-resisting steel tanks. Fold with tank inside, carry like brief case (see small view of stove (E) above), or small suitcase—lightweight. Folding adjustable windshields and lid protect flame on three sides and keep in the heat. Built-in air pump. Burn regular unleaded gasoline.

Two-Burner Stove with Steel Wire Grate

(E) Cooking surface 9½x15¾ in. Tank holds 1¾ pints. Folds to 18½x11¼x4½. Pastel smooth finish Green enameled. Actual weight only 11 lbs. 8 oz. Ship. wt. 13 lbs.
60 A 8932. . . . . $3.98

DeLuxe Two-Burner Stove with Cast Iron Grate

(F) Larger, more cooking surface—20x9⅜ in. Tank holds 2¾ pints. Folds to 20½x11¾x5¼ in. Crackle finish Green enameled. Folding steel legs. Act. wt. 19 lbs. Ship. wt. 21 lbs.
60 A 8934. . . . . $6.39



Sleeping Bags

With Built-in Pockets for Air Mattresses

$13.45 Cash Kapok Filled

Wards Supreme Quality Sleeping Bags

- **Netting Enclosed Head Flap with Side Curtains for Protection (H).**
- **Inner Pad is Removable for Easy Cleaning, Drying or Airing.**

Closely woven, dry finish, water repellent Brown Army Duck cover. 100-inch slide fastener on one side and bottom. Finished size 34 by 78 inches. Sateen covered inner pads quilted. Netting snaps down (J). Full length pocket under lower pad for air mattress or pad. Rolls compactly (G). Head flap frame, ropes, steel stakes included. Ship. wt. each 16 lbs.

Kapok Filled
4 lbs. pure Java Kapok distributed in upper and lower pads. Moisture and vermin-proof.
460 A 9019—Act. wt. 10 lbs. . $13.45

Wool Filled
3½ lbs. new lamb's wool distributed in pads. In natural fluffy state. Softer, warmer than bag at left. Act. wt. 10 lbs.
460 A 9020. . . $15.65

Feather, Down Filled
Best Quality. 4 lbs. of soft duck feathers and down in upper and lower pads. Wards softest, warmest bag. Act. wt. 11 lbs.
460 A 9025. . . $20.95

3 lbs. 100% All New Wool Filled

- **10.38 oz. Army Duck Cover. Military Style.**

$12.45 Cash

The type of Bag that officers prefer in military life. Olive drab Army Duck cover is dry waterproofed. Full 100-inch slide fastener. 36-in. head flap has pocket for valuables—Flap provides dustproof cover for bag when rolled. Rolls compactly—easy to carry. Full length pocket for air mattress or extra pad. Finished size 34 by 78 in. Actual weight 9½ lbs. With frame for head flap as shown, ropes, stakes. Ship. wt. 11 lbs.
460 A 9745—Each. Cash. . . . $12.45

Bargain Sleeping Bag

- **4 Pounds Kapok Filling.**
- **36-inch Slide Fastener.**

Compare Wards price with other stores. Water-repellent brown drill cover. 45-in. head flap. Soft cotton flannel lining. Filling equally distributed and quilted in upper and lower pads. Built-in pocket for air mattress or pad. Size 34 by 74 in. With head flap frame, steel stakes, and strong ropes. Act. wt. 10½ lbs. Ship. wt. 13 lbs.
460 A 9744—Each. . . $7.49

Buy on Time and Buy the Best

You'll get more for your money—more satisfaction. Wards Monthly Payment Terms are exceptionally reasonable. Read details on Inside Back Cover.



Supreme Quality Camp Cot

- Strong Tightly Woven, 11-oz. Brown Canvas Top
- Steel Braced Frame.

$2.69 Ea.

Same quality Camp Cot would cost up to $3.50 elsewhere. There is rugged strength in the strong hardwood frame. Only well-seasoned, sanded, and straight-grained oak, beech or maple woods used. Painted steel reinforcing plates on all legs and joints give extra strength and firmness. Plenty of comfort in the tightly stretched canvas top. Full size: 27 inches wide, 76 inches long, 18 inches high. Folds compactly to 38 by 6 by 5 inches (see small picture (K) above). Canvas handle makes it easy to carry. Order an Air Mattress or single size Cot Pad described at right for additional comfort. Actual weight 15 lbs. Ship. wt. 17 lbs.
460 A 9673—*Available*. $2.69

Economy Camp Cot

- White Canvas Top
- Steel Reinforced Center Legs.

$1.79 Each

Special low price for this serviceable, comfortable folding Cot. Ideal for use at the summer camp or cottage—handy around the home for the porch or yard. Hardwood frame. Steel reinforced joints at center legs only. End legs riveted—not as strong as steel braced end legs on better cot at left. End rails keep top stretched tight for sleeping comfort. 25 in. wide, 76 in. long, 15 in. high. Folds to 38x7½x5 in., small picture (L). Order single size cot Pad or Air Mattress—at right for extra comfort. Ship. wt. 15 lbs.
460 A 9672—*Available*. $1.79

Camp Cot and Bed Pads

- Green Drill Cover.
- Thicker than Most Cot Pads.

$1.79 Cotton

Extra camp comfort. Sewed lengthwise to keep filling in place. Tapes for tying into roll (see M).

Cotton Filled
Thick, soft, fluffy filling. Single size, 26x76 in. Actual weight 4 lbs. Shipping weight 6 lbs.
460 A 9438. . . . . $1.79

Kapok Filled—Softer
Moisture and vermin-proof. Stay softer—better than cotton.
460 A 9440—Single size, 26x76 in. Act. wt. 4; Ship., 5 lbs. . $2.29
460 A 9441—Double size, 48x76 in. Act. wt. 7 lbs. Shipping weight 9 lbs. $3.89

Full Size Air Mattress

- Inner Tape Type (N) Superior to Tubular Type.

$5.49 25x48 in.

Better quality Air Mattress—use on cots, in sleeping bags or on ground. Gum rubber, covered with Brown Drill fabric. Inflate by mouth, tire or mattress pump. Lacings for joining two mattresses. Ship. wts. 5 lbs. and 7 lbs. 4 oz. Inflated sizes.
60 A 9776—25x48 in. $5.49
60 A 9775—25x75 in. 7.98

Rubber Air Pillow
Brown drill fabric covered. Use at camp or home. Inflates to 12½ by 15½ inches. Ship. wt. 14 oz. Pictured above (R).
60 A 9779—Each. 85c

Best Rubber Air Mattress

- Finest Air Cell Construction Light-weight, Strong.

$8.29 26½x48

Rubber web (see P) separates cells, gives evener, more comfortable support to body. Pure gum rubber inside, Brown Drill fabric outside. Lace holes for joining 2 together. Inflates by mouth, tire or mattress pump. Inflated sizes given. Metal valve. Ship. wts. 8 and 10 lbs.
60 A 9770—26½x48 in. $8.29
60 A 9771—26½x74 in. 10.95

Rubber Air Pump
Inflates air mattresses quickly and easily. Unbreakable. Operates by pressing with hand or foot. Act. wt. only 1 lb. Ship. wt. 1 lb. 4 oz.
60 A 9778—(Not pictured). . $1.29

DeLuxe Pack Sack

- 10-oz. Army Duck.

$2.95 Each

Ideal for hikers and hunters. Dry waterproofed Green finish—won't rub off on hands or clothes. Size 18 by 18 in. Two 7 by 9-in. outside bellows pockets. Leather closing strap and draw string at top. Padded adjust. shoulder straps. Ship. wt. 2 lbs.
60 A 8966. . . . . $2.95

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NOTICE

Weights given for white material are actual weights; weights given for waterproofed materials are before waterproofing in accordance with the U. S. Government Bureau of Standards. Waterproofed materials finish slightly narrower than widths shown.

Wards Canvaseal waterproofed materials are 40 to 50% heavier than untreated materials.

ALLOW FOR SHRINKAGE

All canvas, waterproofed or white, shrinks in use about 1 inch per foot in length and width. Measure carefully—be sure to buy enough to allow for shrinkage.



HIGH COUNT BOAT SAIL DRILL

Medium Weight—Finest Quality Grade A

For Tents, Sails and wherever a high (72 by 60) thread count material is required. 30 inches wide. Weighs 7.68 ounces per sq. yd. before waterproofing—Waterproofed drill weighs about 11 oz. per square yard.

660 A 9029—White—Not Waterproofed. Lightweight—excellent sail cloth. Ship. wt. per yd. 9 oz. Yard..... **22c**

660A9030—Forest Green Waterproofed. Ideal for tents or light covers. Ship. weight per yd. 13 oz. Yard..... **28c**



Canvas Cover

OIL-FREE CANVASEAL WATERPROO

A Superior OIL-FREE Treatment—will not rot fabric. Special Waxes trate every fiber. Canvaseal waterproofed Covers or Material will not in summer or stiffen in winter. Makes lightweight materials water-re or heavy materials completely waterproof . . . more mildew-resistan

GOOD QUALITY

"B" Grade Single Filling Canvas — 22c yd.

- Woven with 2 Threads Lengthwise and 1 Thread Across (See (A) above).

9.93-oz. or 12.41-oz. Offers low cost protection for farmers, contractors, etc. where heavy duty is not required. All material is 29 inches wide. See "Notice" above.

Natural Cream Color—Not Waterproofed

Article Number	Wt. Sq. Yd. Oz.	Ship. Wt. Yd.	Per Yd.
660 A 9031	9.93	10 oz.	22c
660 A 9032	12.41	13 oz.	28c

Brown Waterproofed

Canvaseal waterproofing—makes material water and mildew resistant. Fine for lightweight, treated covers.

Article Number	Wt. Sq. Yd. Oz.	Ship. Wt. Yd.	Per Yd.
660 A 9034	9.93	1 lb.	30c
660 A 9035	12.41	1 lb.	38c

BETTER QUALITY Canvas Material

Double-Triple Filling—Not Waterproofed — 34c yd.

Double Filling—Cream Color

- Balanced Weave—2 Threads Woven Lengthwise and 2 Twisted Threads Crosswise—(See picture (B) above).

Weighs 9.93-oz. per sq. yd. Stronger than single filling canvas. Recommended for use wherever a strong closely woven untreated canvas is required—can be painted or treated with waterproofing compound. See "Notice" above.

Article No.	Width In.	Ship. Wt. Yd.	Per Yd.
660 A 9055	36	13 oz.	34c
660 A 9047	48	1 lb. 2 oz.	46c
660 A 9056	60	1 lb. 4 oz.	59c
660 A 9048	72	1 lb. 9 oz.	74c

Triple Filling—Cream Color

- Tightly Woven with 2 Threads Running Lengthwise—3 Twisted Threads Across (See picture (C) above).

Weighs 12.41-oz. per sq. yd. Untreated. Stronger and heavier than canvas above, more wear resistant. Use where heavier duty demands greater strength.

Article No.	Width In.	Ship. Wt. Yd.	Per Yd.
660 A 9059	48	1 lb. 4 oz.	54c
660 A 9060	72	1 lb. 14 oz.	86c

Double-Triple Filling Olive Drab Waterproofed — 43c yd.

Double Filling, Olive Drab Waterproofed

- Balanced Weave—2 Threads Woven Lengthwise and 2 Twisted Threads Running Crosswise—(See (B) above).

Weighs 9.93 oz. per sq. yd. before Canvaseal waterproofing. Mildew resistant. Excellent for tents, covers, or outdoor protection under normal moisture conditions.

Article No.	Width In.	Ship. Wt. Yd.	Per Yd.
660 A 9057	36	1 lb. 6 oz.	43c
660 A 9049	48	1 lb. 11 oz.	57c
660 A 9058	60	1 lb. 14 oz.	72c
660 A 9050	72	2 lbs. 12 oz.	88c

Triple Filling, Olive Drab Waterproofed

- Closely Woven with 2 Threads Lengthwise—3 Twisted Threads Across (See picture (C) above).

Weighs 12.41-oz. per sq. yd. before Canvaseal waterproofing. Heavier, stronger than double filling listed above. Adequate for most heavy duty jobs. Finishes slightly narrower after waterproofing.

Article No.	Width In.	Ship. Wt. Yd.	Per Yd.
660 A 9061	48	1 lb. 14 oz.	68c
660 A 9062	72	3 lbs.	$1.07

BEST QUALITY Army Duck Material

"A" Grade Army Duck—Not Waterproofed — 56c yd. No. 10

- 3 Twisted Threads Running Lengthwise and Crosswise (See picture (D)).

No. 10 Army Duck—White

Weighs 14.73-oz. per sq. yd. For tough jobs where waterproofing is not essential.

Article No.	Width In.	Ship. Wt. Yd.	Per Yd
660 A 9037	36	1 lb. 3 oz.	56c
660 A 9051	54	1 lb. 9 oz.	87c
660 A 9052	72	2 lbs.	$1.19

No. 8 Army Duck—White

Weighs 18-oz. per sq. yd. Heavier, stronger than canvas above.

Article No.	Width In.	Ship. Wt. Yd.	Per Yd.
660 A 9061	36	1 lb. 7 oz.	68c
660 A 9082	54	2 lbs.	$1.02
660 A 9083	72	2 lbs. 8 oz.	1.36

No. 6 Army Duck—White

Weighs 21.27-oz. per sq. yd. Strongest unwaterproofed canvas Wards sell. For use on jobs requiring a maximum of protection and wear where waterproofing is not essential.

Article No.	Width In.	Ship. Wt. Yd.	Per Yd.
660 A 9039	36	1 lb. 10 oz.	72c
660 A 9040	54	2 lbs. 4 oz.	$1.12
660 A 9041	72	3 lbs.	1.49

"A" Grade Army Duck—Waterproofed — 66c yd. No. 10

- 3 Twisted Threads Running Lengthwise and Crosswise (See picture (

No. 10 Army Duck—Olive Drab—Waterproofed. Weighs 14.73-oz. per sq. Weights shown are before Canvaseal w proofing. Material is about 50% hea after treatment. See "Notice" at left.

Article No.	Width In.	Ship. Wt. Yd	Per
660 A 9038	36	1 lb. 12 oz.	66
660 A 9053	54	2 lbs. 5 oz.	98
660 A 9054	72	3 lbs. 3 oz.	$1.

Heavier No. 8 Army Duck—Olive D Waterproofed. Weighs 18-oz. per sq.

Article No.	Width In.	Ship. Wt. Yd.	Per
660 A 9084	36	2 lbs.	78
660 A 9085	54	2 lbs. 12 oz.	$1.
660 A 9086	72	3 lbs. 12 oz.	1.

No. 6 Army Duck—Olive Drab—Wa proofed. Weighs 21.27-oz. per sq. Choice of truckmen who want comp protection of loads from wind and rai

Article No.	Width In.	Ship. Wt. Yd.	Per
660 A 9042	36	2 lbs. 4 oz.	84
660 A 9045	54	3 lbs. 6 oz.	$1.
660 A 9046	72	4 lbs. 8 oz.	1.

WARDS TENTS Finish Full Sizes Listed

Do not confuse Wards sizes with cut sizes given before hemming — such tents finish inches shorter. Wards Tents are cut extra large and finish to the size stated.



Wards Khaki Waterproofed Canvas Wall Tents

360 A 9571

$9.98 Each

7x7 Feet Without Poles

- Wood Ridge and Upright Poles Are Jointed—Makes Them Easy to Pack and Easy to Carry.
- Sewed-in Iron Rings Along Eaves and at Ridge Ends. See (Picture B). Double Stitched Seams.
- All Strain Points are Reinforced by Canvas Patches. Steel Tent Stakes. Ropes and Rope Keys.
- Wards "Oil-Free" Canvaseal Waterproofing Treatment Penetrates Every Fiber of the Canvas.
- New Large Rainproof Rear Window (Picture A) Has Storm Flap Adjustable From Inside—Provides Ventilation for Greater Sleeping Comfort . . . . Netting Keeps Out Insects.

Wall Tents at extremely low prices. Full center and wall heights provide plenty of head room. Strong, jointed poles pack in half the space. Wide eaves keep the sidewalls dry. Window size 18 by 18 in. in tents up to 9½ by 11¾ ft. and 18 by 24 inches in larger tents. Canvas weights listed are per sq. yd. before waterproofing. Steel stakes, strong sisal guy ropes and rope keys included. *Article nos. prefixed 260 shipped separately from Phila., Pa. Factory in about 10 days; others from Stock. *Tents with poles up to 9½ by 11¾ ft. are Mailable; larger sizes Not Mailable.*

9.93-oz. Canvas Wall Tents—Khaki Canvaseal Waterproofed

Width and Length, Ft.	Height, Ft. Center	Height, Ft. Wall	Article Number	Tents with Poles Ship. wt.	Tents with Poles Price	Tents without Poles Ship. wt.	Tents without Poles Price
7 x 7	6½	3	360 A 9571	43 lbs.	$10.98	33 lbs.	$9.98
8 x10	6½	3	360 A 9572	48 lbs.	15.95	45 lbs.	14.69
9½ x11¾	7	3	360 A 9575	70 lbs.	20.29	54 lbs.	18.98
11¾ x14	8	3½	160 A 9577	88 lbs.	26.95	68 lbs.	25.45
14 x16	9	4	*260 A 9578	115 lbs.	34.50	90 lbs.	32.75
16½ x20	10½	5	*260 A 9579	152 lbs.	46.20	122 lbs.	43.95

Heavy 12.41-oz. Canvas Wall Tents—Khaki Canvaseal Waterproofed Stronger—more serviceable than tents listed above.

8 x10	6½	3	360 A 9532	61 lbs.	$18.45	51 lbs.	$17.19
9½ x11¾	7	3	360 A 9533	74 lbs.	23.29	61 lbs.	21.98
11¾ x14	8	3½	160 A 9534	98 lbs.	32.95	78 lbs.	31.45
14 x16	9	4	*260 A 9535	115 lbs.	39.65	102 lbs.	37.89
16½ x20	10½	5	*260 A 9536	175 lbs.	53.95	146 lbs.	51.29

Buy on Time

BUY ON TERMS:

—Read De on Pg. 118



$13.95 Cash — Center Pole $2 a Month

Wards Green Waterproofed Umbrella Tent

- Heavy Drill Weighs 6.74 oz. per sq. yd. Before Waterproofing.
- Rainproof Brown Netting Rear Windows 16x18 in. With Storm Flap Easily Raised or Lowered from Inside. See (D).

$18. — Corner P $3 a Mon

Insectproof netting door curtain with tie tapes. Awning drops to form storm door. All seams double stitched. Strain points reinforced. Sewed-in Galvanized iron rings at peak, corners of eaves and base.

Center Pole Model. Steel umbrella arms on jointed wood center pole. 8-inch sod cloth. Center height 7 ft.; eaves 5½ ft. high, 4 ft. sq. Base 10 by 7½ ft. Steel stakes. No awning poles.

460 A 9594—Jointed Wood Awning Poles for above tents. 6 ft. long. Ship. wt. 5 lbs. Pr.....7

(Order Below.) Ship. wt. 31 lbs.

460 A 9526—*Mailable.* Cash Price.....$13.

Corner Pole Model. Similar to above but l Premax adjustable steel corner pole assem (C). Sewed-in waterproofed canvas floor. C ter ht. 7 ft.; eaves 5 ft. 6 in. high, 4 ft. sq. B 9 by 9 ft. Steel stakes. No awning poles (Or below). Ship. wt. 56 lbs.

360 A 9520—*Mailable.* Cash Price.....$18.



Junior Umbrella Tent with Rear Window

- Green Rainshed Treated Tent Cloth.
- Screened Window—Storm Flap (See E).

$3.98 Each

Boys, here's your year 'round clubhouse. Reinforced peak has sewed-in iron ring for extra strength. Extra stakes at center of sides for rigidity (an exclusive Ward feature). All seams double stitched. Awning forms door flap. Center pole, awning poles, ropes. Base size cut 7x7 ft.—finishes 6¾x6¾ ft. Center ht. 6 ft.; eaves 4½ ft.

460 A 9633—Ship. wt. 14 lbs. *Mailable*.....$3.98

Pup or Shelter Tent — **$6.3** Each

- Waterproofed Khaki Tent Drill.
- Strong Double Stitched Seams.

Netting door snaps shut. Storm door Sides guy out—more room inside Waterproofed floor cloth. Jointe poles, rope, steel stakes. 7 ft. long 5½ ft. wide, 3½ ft. high. Ship. wt 13 lbs.

460 A 9636—*Mailable*.....$6.39

460 A 9637—As above, but no pet ting door, storm door or floor. No side guys. Ship. wt. 9 lbs.....$3.49

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-Materials

ACTUAL WEIGHT OF CANVAS GIVEN

The quoted weight of the Canvas used in Wards Covers is based on the weight of one square yard before waterproofing as recommended by United States Government Bureau of Standards. After Canvaseal waterproofing the Canvas in Wards Covers weighs 40 to 50% more.



Buy Now Pay Later

Don't let the weather take its toll on costly machinery and valuable material. The short time you spend covering and uncovering your machinery and low cost of Wards Canvas Covers will save you many dollars in repair and depreciation. Include the covers you need in any order of $10 or more and get immediate protection. Include rope in your order . . . it will add little or nothing to your down and monthly payments. Find out how you can use your credit —see Wards Time Payment Plan on Inside Back Cover. Terms as low as $2 a Month.



Which Grade of Canvas Cover Shall I Buy?

Wards sell 3 grades of waterproof Canvas Covers. They are classed according to the construction of the canvas and the weight. The greater the weight the closer the weave and stronger the canvas. For construction facts, including the number of threads in the weave of the three canvases, and specific recommended uses for each grade, see below. In general, GOOD Single Filling Covers are intended for light duty jobs or seasonal use where low cost protection is required; BETTER Triple Filling Covers and BEST Army Duck Covers are used for heavy duty or continuous service.

ALLOW FOR SHRINKAGE. All canvas, waterproofed or white, shrinks in use about 1 inch per foot in both width and length. Buy covers large enough to allow for this shrinkage.

GOOD Brown Waterproofed Single Filling Covers



- **Single Filling—Tightly Woven with 2 Threads Lengthwise and 1 Heavy Thread Crosswise— (see magnified picture).**
- **Sewed-in Steel Rings in Canvas Reinforcing Patches (see at left) at Corners, Every 5 Ft. Along Edges. Ropes included.**

Recommended for general use where low cost protection is important. Ideal for farmers, contractors, or to use on small trailers. Cut sizes listed—covers finish slightly smaller due to overlapping at seams and hems. Rings take ⅜-inch rope. *Covers up to 70 lbs. Mailable.*

Medium Weight 9.93-oz.

Single filling canvas. Weighs 9.93 oz. per sq. yd. before waterproofing. **Be sure to state size wanted.** *All covers listed in table Mailable.*

$1.45 5x7 Ft.

Size Feet	Ship. Wt.	Each
Article No. 60 A 9090		
5 x 7	6 lbs.	$1.45
6 x 8	7 lbs.	2.57
6 x10	9 lbs.	3.19
7 x 9	10 lbs.	3.39
8 x10	12 lbs.	3.95
Article No. 460 A 9090		
8 x12	13 lbs.	$4.79
9⅔x12	15 lbs.	5.55
9⅔x14	17 lbs.	6.65
9⅔x16	19 lbs.	7.45
12 x14	21 lbs.	7.98
12 x16	24 lbs.	9.19
14½x16	28 lbs.	11.29
14½x20	35 lbs.	13.10
16 x20	40 lbs.	15.85
16 x24	49 lbs.	18.19
18 x20	45 lbs.	17.35
18 x24	56 lbs.	20.45

Heavyweight 12.41-oz.

Stronger single filling canvas. Weighs 12.41 oz. per sq. yd. before waterproofing. **Be sure to state size wanted.** *All covers listed in table Mailable.*

$1.98 5x7 Ft.

Size Feet	Ship. Wt.	Each
Article No. 60 A 9091		
5 x 7	7 lbs.	$1.98
6 x 8	8 lbs.	2.75
6 x10	10 lbs.	3.84
7 x 9	12 lbs.	3.98
8 x10	14 lbs.	4.75
Article No. 460 A 9091		
8 x12	15 lbs.	$5.89
9⅔x12	17 lbs.	6.85
9⅔x14	19 lbs.	7.95
9⅔x16	23 lbs.	8.95
12 x14	25 lbs.	9.85
12 x16	28 lbs.	11.15
14½x16	32 lbs.	13.19
14½x20	41 lbs.	16.25
16 x20	46 lbs.	17.98
16 x24	56 lbs.	20.35
18 x20	53 lbs.	19.45
18 x24	62 lbs.	23.50

Special Size Single Filling Flat Covers Made to Order

Shipped from Philadelphia, Pa. Factory within 5 days. **State size.**

We will make any size flat cover. Ship. wt. 3 oz. per sq. ft.

Med. Wt. 9.93-oz. Canvas

260 A 9043—Per square foot.....6¼c

Any size flat cover. Stronger canvas. Ship. wt. 4 oz. per sq. ft.

Heavy Wt. 12.41-oz. Canvas

260 A 9044—Per square foot.....7c

BETTER Olive Drab Waterproofed Triple Filling Covers



- **Triple Filling—2 Threads Lengthwise and 3 Twisted Threads Crosswise (see magnified picture at left).**
- **Leather Reinforcing Patches with Double Gripper Eyelets at Corners—Single Eyelets Every 4 Ft. on Edges.**

Recommended for use as farm machinery covers, for covering materials used by contractors and for small truck or trailer covers. Cut sizes listed—finish slightly smaller due to seams. No ropes. Eyelets take up to ⅜-in. rope. *Covers up to 70 lbs. Mailable.*

Heavyweight 12.41-oz.

Heavy long wearing. Weighs 12.41 oz. per sq. yard before waterproofing. **Be sure to state size wanted.**

$2.95 6x8 Ft.

Size Feet	Ship. Wt.	Each
Article No. 60 A 9092		
6 x 8	9 lbs.	$2.95
7 x 9	12 lbs.	4.34
8 x10	14 lbs.	5.34
Article No. 460 A 9092		
8 x12	16 lbs.	$6.45
9⅔x12	17 lbs.	7.55
9⅔x14	20 lbs.	8.69
9⅔x16	23 lbs.	9.75
12 x14	24 lbs.	10.59
12 x16	28 lbs.	11.95
14½x16	33 lbs.	14.29
14½x20	42 lbs.	17.75
16 x20	47 lbs.	19.45
16 x24	55 lbs.	23.29
18 x20	53 lbs.	21.45
18 x24	63 lbs.	25.49
Article No. 160 A 9092		
20½x30	90 lbs.	$35.98

Extra Heavy 14.90-oz.

Tougher, stronger for heavy duty. Weighs 14.90 oz. sq. yd. before waterproofing. **Be sure to state size wanted.**

$3.64 6x8 Ft.

Size Feet	Ship. Wt.	Each
Article No. 60 A 9093		
6 x 8	11 lbs.	$3.64
7 x 9	13 lbs.	4.65
8 x10	15 lbs.	6.19
Article No. 460 A 9093		
8 x12	17 lbs.	$7.29
9⅔x12	19 lbs.	8.64
9⅔x14	21 lbs.	9.95
9⅔x16	24 lbs.	11.29
12 x14	26 lbs.	12.19
12 x16	31 lbs.	13.85
14½x16	35 lbs.	16.29
14½x20	46 lbs.	20.85
16 x20	50 lbs.	22.69
16 x24	60 lbs.	26.55
18 x20	55 lbs.	25.45
Article No. 160 A 9093		
18 x24	71 lbs.	$29.95
20½x30	94 lbs.	42.98

Any Special Size Triple Filling Cover Made to Order

Shipped from Richmond, Va. Factory within 5 days. **State size.**

12.41-oz.—Ship. wt. sq. ft. 3 oz.

260 A 8825—**Flat Type.** Per sq. ft.....7½c

260 A 8896—**Shaped Type.** Per sq. ft.....9c

14.90-oz.—Ship. wt. sq. ft 3¼ oz

260 A 8842—**Flat Type.** Per sq. ft.....8½c

260 A 8897—**Shaped Type.** Per sq. ft.....10c

BEST Olive Drab Waterproofed Army Duck Canvas Covers



- **Strongest of All Covers—Woven with 3 Heavy Twisted Threads Both Lengthwise and Crosswise. Balanced Weave (see magnified picture at left).**
- **Double Eyelets in Leather Patches at Corners and Every 30 Inches Along Edges.**

Recommended to contractors, truck operators and farmers for all heavy duty use. Cut sizes—finish slightly smaller due to seams. Double eyelets take ⅜-in. rope. Ropes not included. **Shipped from Factory** in Richmond, Va. within 5 days. *Covers up to 70 lbs. Mailable.*

No. 8 Army Duck—18-oz.

Extra long wearing. Weighs 18 oz. per sq. yd. before waterproofing, about 27 oz. after waterproofing. **Be sure to state size.**

$4.49 6x8 Ft.

Size Feet	Ship. Wt.	Each
Article No. 260 A 9094		
6x 8	13 lbs.	$4.49
8x10	18 lbs.	7.35
8x12	22 lbs.	8.85
10x12	27 lbs.	10.95
10x14	29 lbs.	12.65
12x14	34 lbs.	14.95
12x16	41 lbs.	16.85
14x16	47 lbs.	19.45
14x20	56 lbs.	24.45
16x20	64 lbs.	27.65
16x24	82 lbs.	32.65
18x20	74 lbs.	30.95
18x24	90 lbs.	36.50
20x30	120 lbs.	49.95

No. 6 Army Duck—21.27-oz.

Strongest of covers. Weighs 21.27 oz. per sq. yd. before waterproofing. 32 oz. after waterproofing. **Be sure to state size wanted.**

$4.98 6x8 Ft.

Size Feet	Ship. Wt.	Each
Article No. 260 A 9095		
6x 8	15 lbs.	$4.98
8x10	21 lbs.	8.29
8x12	25 lbs.	9.95
10x12	30 lbs.	11.95
10x14	32 lbs.	13.85
12x14	37 lbs.	16.45
12x16	44 lbs.	18.50
14x16	51 lbs.	21.35
14x20	60 lbs.	26.45
16x20	71 lbs.	30.45
16x24	90 lbs.	35.95
18x20	82 lbs.	33.85
18x24	98 lbs.	39.95
20x30	135 lbs.	54.95

Any Special Size Army Duck Cover Made to Order

Any size No. 8-18-oz. Army Duck cover made to order. **Shipped from** Richmond, Va. Factory within 5 days. Shipping weight sq. ft. 3½ oz.

260 A 8879—**Flat Type.** Per square foot.....11c

260 A 8850—**Box or Shaped.** Per square foot....12½c

Any size No. 6-21.27-oz. Army Duck cover made to order. **Shipped from** Richmond, Va. Factory within 5 days. Shipping weight sq. ft. 4 oz.

260 A 8913—**Flat Type.** Per square foot.....11½c

260 A 8914—**Box or Shaped.** Per square foot.....13c

SATISFACTION GUARANTEED

The canvas covers and material, like everything else you buy at Wards, are guaranteed to give satisfaction or your money back. *See Page 1165.*

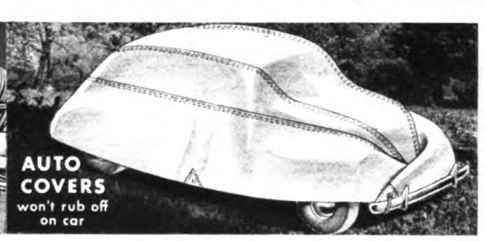
White Untreated Single Filling COVERS

For Low Cost Protection—Not Waterproofed









- **Brass Eyelets in Canvas Patches at Corners, Every 5 Ft. along Sides, Ends.**

$1.29 9.93 oz. 5x7 Feet

A low cost utility Cover where a waterproofed cover is not essential. Double stitched seams. Single filling—woven with 2 strands lengthwise and 1 heavy strand across— (see magnified corner of single filling *Waterproofed* covers above). Finish slightly smaller. Ropes included. Eyelets take up to ⅜ in. rope.

Medium Weight 9.93-oz. Canvas

Single filling canvas. Weighs 9.93 oz. per sq. yard. Not waterproofed. **State size.**

Size Feet	Ship. Wt.	Price Each
Art. No. 60 A 9096		
5x 7	4 lbs.	$1.29
6x 8	5 lbs.	1.94
8x10	9 lbs.	3.19
Art. No. 460 A 9096		
7x15	10 lbs.	$4.39

Heavy Weight 12.41-oz. Canvas

Heavier—stronger than canvas covers at left. Not waterproofed. Weighs 12.41 oz. per square yard. **State size wanted.**

$6.98 9⅔x16 feet

Size Feet	Ship Wt.	Price Each
Art. No. 460 A 9097		
9⅔x16	15 lbs.	$6.98
12 x16	18 lbs.	8.69
14½x20	26 lbs.	12.75
16 x20	29 lbs.	13.98
16 x24	36 lbs.	16.95
20½x24	44 lbs.	21.65

"Canvaseal" Waterproofing

98c Gal.

A special wax treatment—completely Oil-Free. Will not rot the fabric. Thoroughly waterproofs new or old canvas. Makes light weight materials water-repellent or heavy materials waterproof . . . resists mildew. Recommended for tents and covers. Mixed ready to use—no adding of gasoline. 1 gallon covers about 100 sq. ft. Instructions. COLORS: Brown, Green, Khaki, or Clear. Shipping weight 8 pounds.

460 A 8972—**State color wanted.** Per gallon.....98c

"Canvaseal" Dry Finish Waterproofing

Will not rub off—for tents, sails, sleeping bags, duffle bags, sports clothing, etc. Gives a non-oily, dry feeling finish. Mildew resisting. Ready to use—no mixing necessary. Clear color. ½ gal. covers about 50 sq. ft.

560 A 8965—Shipping weight 5 lbs. 4 oz.

Per ½ gallon.....98c

Drop Cloths—Protect Furniture, Floors

$1.79 6x9 Ft.

Ideal for painting, redecorating. Heavy weight, closely woven White Drill. No eyelets or tie ropes. Double stitched seams. Use as dust covers for autos, furniture, etc. or as protection against sun in greenhouses. Not waterproofed.

560 A 9087— 6x9-ft. size. Ship. wt. 3 lbs....$1.79

560 A 9088— 6x12-ft. size. Ship. wt. 4 lbs.... 2.39

560 A 9073— 9x12-ft. size. Ship. wt. 6 lbs 3.49

560 A 9074—12x15-ft. size. Ship. wt. 9 lbs 5.59

560 A 9075—15x16-ft. size. Ship. wt. 13 lbs...7.39

Supplies to Make Covers, Tents, etc.

Ⓐ 60 A 9072—**Sailor's Palm.** Fits right hand to push needle in heavy material. Wt. 3 oz. 35c

Ⓑ 60 A 9070—**Canvas Sewing Needles.** For heavy thread listed below. Triangular shaped point. Ship. wt. 1 oz. 2 for.....7c

Ⓓ 60 A 9071—**Heavy Thread.** White waterproofed. 1/32-in. diam. Not for usual machines or needles. Use 60 A 9070 needle above. Ship. wt. 10 oz. Per Ball (approx. 400 to 500 ft.).....15c

Ⓒ 60 A 9063—**Grommet Setting Tool.** For size 2 grommets. Grommets cannot be installed without tool. Ship. wt. 1 lb. 14 oz. Each .59c

Ⓔ 60 A 9064—**Brass Teeth Grommets.** Size 2, ⅜-in. hole. Ship. wt. 2 oz. 2 dozen for.....15c

Khaki Rainshed Auto Covers

- **Strong, Lightweight Sheeting—Water Repellent. Offers Low Cost Protection.**

New Khaki dry water-repellent treatment—won't rub off on car, clothes, or hands. Closely woven Covers are flat type (not shaped). Protects the finish from the weather—keeps your car looking new longer. Easily and quickly put on. 4 brass eyelets in canvas patches on ends, 1 on each side. Seams double stitched for extra strength. Durable but not as long wearing as covers at right. Ropes are included for fastening to car. For all cars, sedans and coupes—including cloth-top cars.

Article No.	Size Ft.	Ship. Wt.	Price
560A 9065	11¾ x14	12 lbs.	$5.49
460A 9066	14½x16	16 lbs.	7.89
460A 9067	14½x18	17 lbs.	9.39
460A 9068	14½x20	19 lbs.	9.98
460A 9069	16 x22	23 lbs.	11.98

Measure car cover top from bumper to bumper. Order nearest length.

Supreme Quality Covers

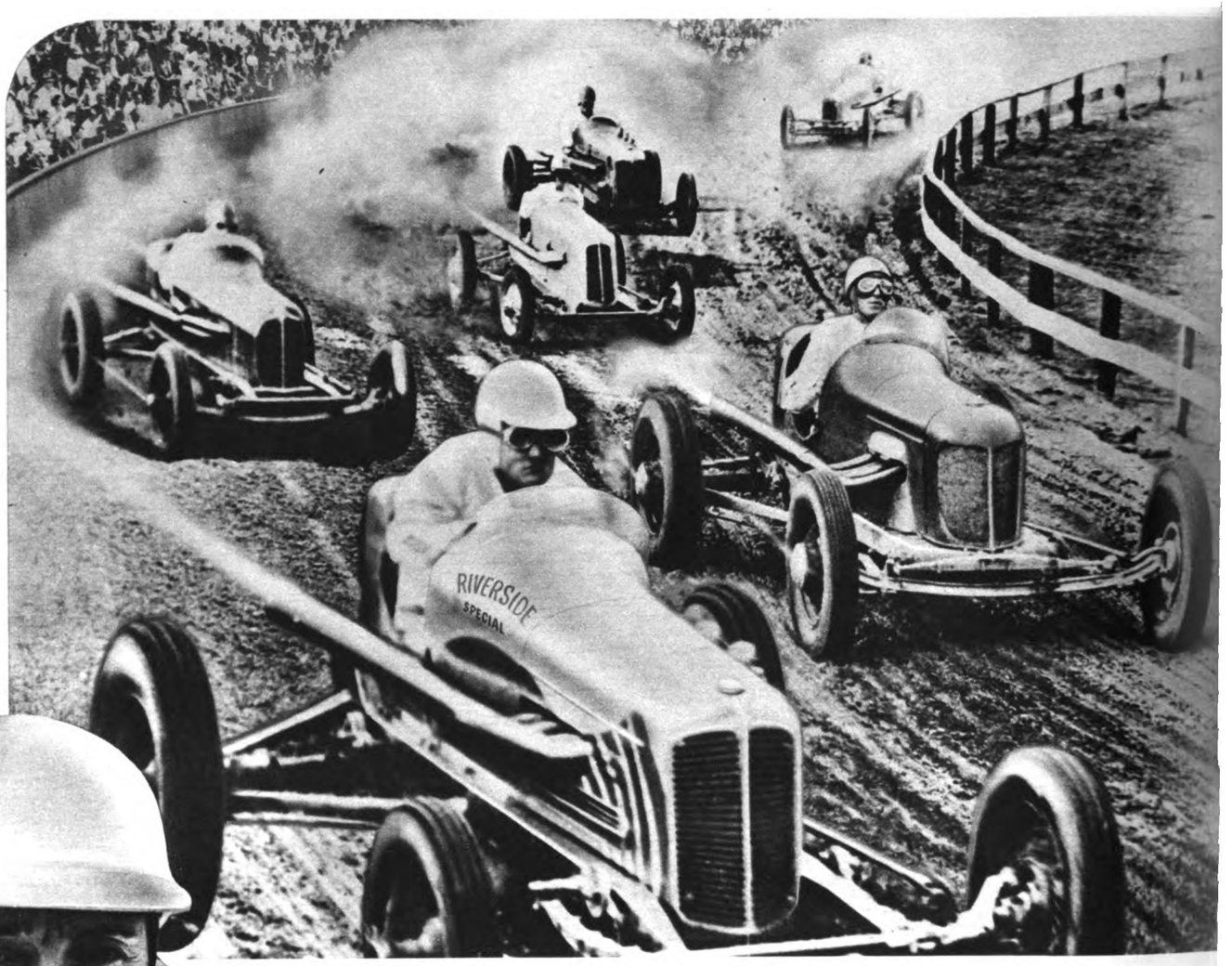
- **8.46-oz. Waterproofed Canvas**
- **Inside Surface Napped, Won't Scratch Finish.**

Special green waterproofing on outside of Canvas—won't rub off on car. Inside napped — can't scratch. Seams double stitched for extra strength. 4 brass eyelets in patches on ends, 1 in center of each side. Flat type (not shaped). Folds into small compact space — can be carried in trunk of car or stored in small place when not in use. Easily and quickly put on or removed from car. Ropes included for fastening cover to car. For all cars, Sedans or Coupes—incl. cloth-top cars.

Article No.	Size Ft.	Ship. Wt.	Price
460 A 9076	11¾ x14	18 lbs.	$9.45
460 A 9077	14½x16	27 lbs.	12.98
460 A 9078	14½x18	29 lbs.	14.49
460 A 9079	14½x20	31 lbs.	15.95
460 A 9080	16 x22	33 lbs.	18.95

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SAFETY *ON THE RACE TRACK . .*





"Riversides have been my choice for safety on the race track for over seven years."

7 times Champion ICMA Circuit

Gus Schrader

AGAIN *More Races Won on Riversides than any other Stock Tire*

2232 TIMES . . . that's how many times Riverside equipped cars were entered in race meets on which we had reports in 1940. 2232 TESTS on the race track to prove their safety on the highway for you . . . . and so far in 1941 Riversides continue to show superiority. And what tests they're put to! Breath taking speeds of 100 M.P.H. and more—every turn a grinding skid that chews the tread like an emery wheel. Friction heat that would tear an inferior tire into bits. But Riversides can take it, that's why more drivers choose Riverside Stock Tires than any other make.

These are not special racing tires. Race drivers buy the same Stock Riverside you get from this Catalog. If our claims for safety were based on tires built differently from our regular Stock Riversides, they would mean nothing to you. But this amazing proof of strength and stamina is important to every motorist who wants the utmost safety for himself and family. You do not drive at the terrific speed of 100 miles per hour but when a stock tire can take it at that speed—when race drivers have confidence to stake their life and livelihood on Riversides, it only stands to reason that they will give you the utmost safety at the speed you drive. Make your next set Riversides.



JOE CHITWOOD—1939 and 1940 AAA East Coast Champion. One of America's outstanding race drivers. Uses regular stock Riversides.

938 WARDS OSA 80



TED HORN—Famous for his fine performances on the major tracks in U.S.A. says "I use regular stock Riversides in all my dirt track racing. You'll find them on my transport car, too."



RIVERSIDE SAFETY FOR BUS PASSENGERS

"I have used Riversides exclusively on my personal car for 8 years, and for the same period this company has extensively used them on its trucks and busses." H. B. Cobban, Northeast Oklahoma Railroad Co., Miami, Okla.



NEVER AVERAGED LESS THAN 65,000 MILES

"I drive my film truck an average of 150 miles per day rain or shine over all kinds of roads. I have never averaged less than 65,000 miles on a set of Riversides. I got only up to 25,000 miles on other brands." Ernest B. Okeson, Port Angeles, Wash.

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SAFETY ON THE HIGHWAY



WHICH RIVERSIDE SHALL I BUY?

Here's how they compare in MILEAGE

TRAIL BLAZER	100%
RAMBLER	120%
FIRST QUALITY	145%
DELUXE	165%
SUPREME	185%

Here's how they compare in STRENGTH

TRAIL BLAZER	100%
RAMBLER	105%
FIRST QUALITY	115%
DELUXE	127%
SUPREME	*163%

*When dry from long, hot runs

To keep this comparison accurate we have used all 6.00-16 tires. Riverside Trail Blazer used as a basis at 100%. See full details and prices on following pages.

Over ONE MILLION motorists chose Riversides last year

OVER 1,000,000 . . . That's how many motorists bought Riversides last year.

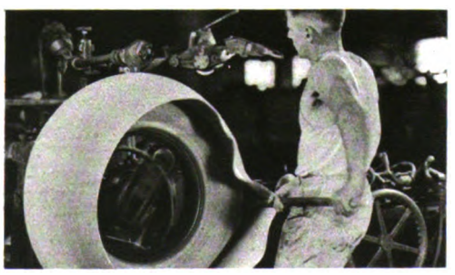
This nation-wide popularity has been won through giving EXTRA QUALITY and EXTRA VALUE for many years. It's the result of satisfied users telling their neighbors about Riverside's safety, long mileage and low prices. For Riversides have no National Radio Programs—No expensive Magazine Ads—No Billboards—No Salesmen. We save this expense and pass it on to you, partly in lower prices and partly in better quality.

Wards have spent over 26 years building Riverside's Reputation. Through all this time we have held steadfastly to one ideal . . . to give MORE mileage and MORE safety than would ordinarily be expected for the money. Giving extra value means permanent customers, and permanent customers are far more important than extra profit through skimping on quality. You'll find a tire for every purse and purpose on the next few pages . . . Every one Warranted without limit of months or miles. Compare our low prices—Read the PROOF of quality. Join the millions of satisfied users who enjoy Riverside safety and economy.



TRAVELS THE TOUGHEST MAIL ROUTE

"I have used Riverside Power Grip tires for the last three winters over the most mountainous section of the state and have never used chains. I average from 27,000 to 32,000 miles per tire."—Homer G. Bennett, Beckley, West Virginia.



26 YEARS, AN EXPERT TIRE BUILDER

Mr. M. W. Jackman who builds tires in the great factory where Riversides are made says "only the best materials are used in Riversides, I know because I've built tires for 26 years."

Riverside Trail Blazer

6.00-16 Size $5.98 4 Ply

(Turn to Page 945 for full details)

This tire is built to equal or excel other brands selling at considerably more. It is not a first quality tire. We would not have you think so. But if you need tire service at the lowest possible cost, by all means get Trail Blazer. It will give you far more safety and mileage than cheaply constructed tires made to sell at a low price. Wards pledge never to jeopardize your safety in order to make a low price. See Page 945.



Riverside Rambler

6.00-16 Size $6.98 4 Ply

(Turn to Page 945 for full details)

20% more mileage and 5% greater carcass strength than Riverside Trail Blazer. If you do not punish your tires severely—do not drive long stretches at high speed over rough roads—and wish to spend a limited amount for tires, we recommend Ramblers. Ramblers have rubber dipped cords and double insulated cord plies, which give ample safety for the life of the tire. Made in 4-ply only for the lighter car field. See Page 945.



Riverside First Quality

6.00-16 Size $8.45 4 Ply

(Turn to Pages 944-945 for details)

A First Quality tire; equal to nationally advertised tires used on new cars. It has a bigger, wider non-skid tread that gives 45% more mileage than Wards Trail Blazer. It has a 15% stronger, more rupture-resisting carcass. If you want service comparable to first quality, original equipment tires, Riverside First Quality will give it to you at low cost. Made in all sizes, 4 and 6-ply for all popular cars. See Pages 944-945.



Riverside De Luxe

6.00-16 Size $9.65 4 Ply

(See Pages 942-943 for details)

Riverside DeLuxe is a premium quality tire without premium price. It will give you 65% more tread wear and is 27% stronger than Trail Blazer. By actual road test on 20 different cars they averaged 17% more mileage than other nationally known first quality tires tested against them, yet they cost you less. For the driver who is hard on tires—who demands even greater safety than provided by first quality tires—for the exacting buyer who wants surer, faster stopping, we recommend Riverside DeLuxe. See Pages 942 and 943.



Supreme Quality

6.00-16 Size $13.45 4 Ply

(Turn to Page 941 for full details)

Wards Luxury Tire. Made for those who want and can afford safety and mileage far beyond what is actually necessary in passenger car tires. Judged by price alone it is expensive. But on the basis of mileage and safety it is unquestionably America's Greatest Tire Value. Its carcass is made with RAYON cord. 4 plies of flexible, supple Rayon Cord equal the strength of 6 plies of Cotton cord. Hence in Wards Supreme Quality you get both 4 ply riding comfort and 6 ply safety. You may never drive fast enough to need the surplus strength and safety of Rayon but if you want the last degree of protection we recommend Wards Rayon Supreme.



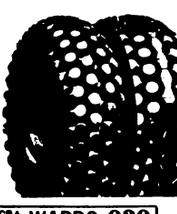
Riverside Power Grips

(Turn to Page 940 for full details)

These have special treads, designed to give you extra traction in mud and snow. Wards offer two types. Both tires are of first quality construction.

The Original Power Grip: The all knob tread gives maximum traction in mud and snow. Flatter tread design, introduced in 1940, gives up to 50% more mileage on hard surfaced roads. Wards recommend it for greatest traction.

The Super Power Grip: Gives even more mileage on paved roads than improved Power Grip and therefore is better where largest part of the driving will be on concrete or other hard surfaced roads.



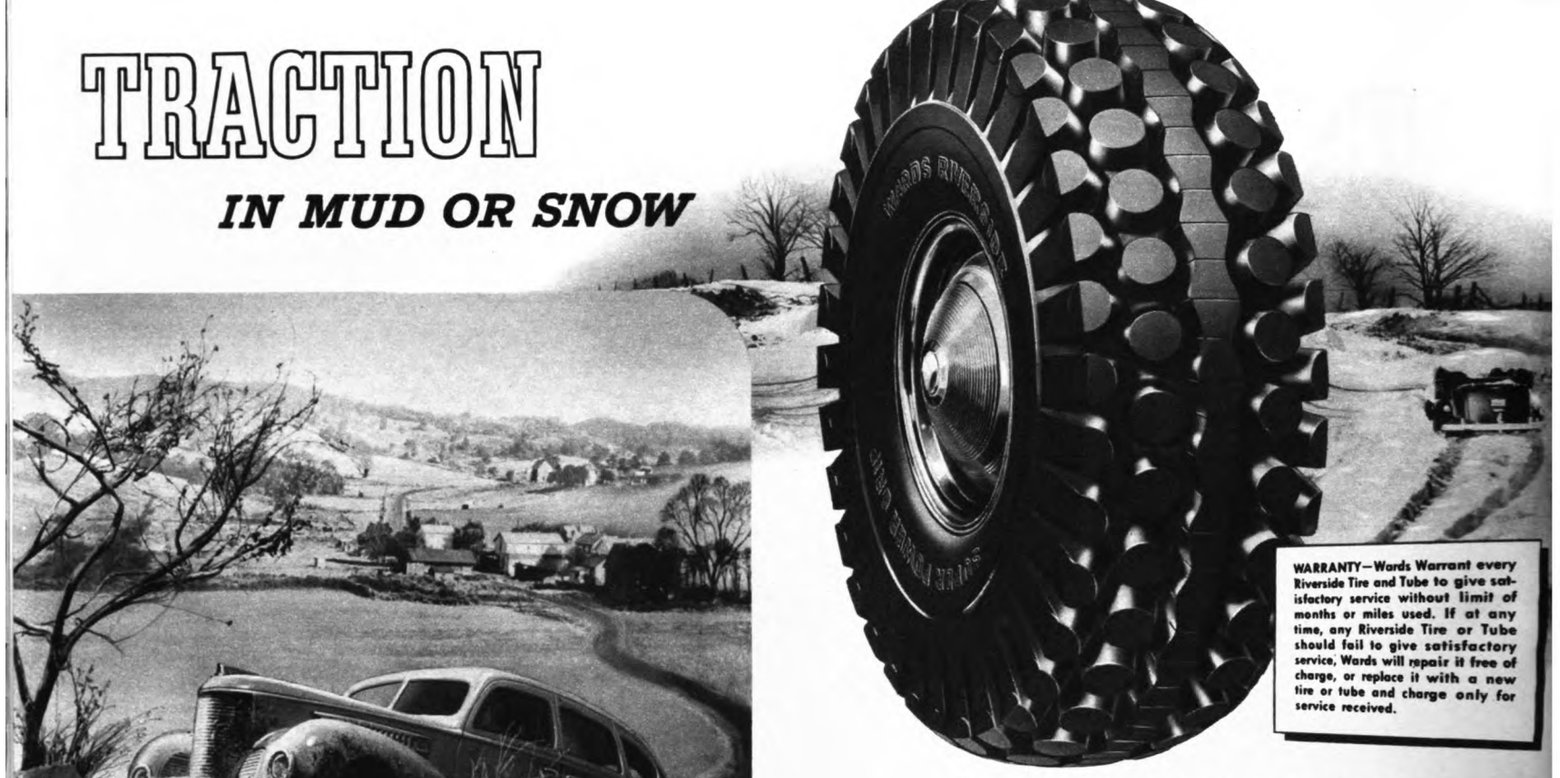
CBA 80 WARDS 939

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TRACTION

IN MUD OR SNOW





WARRANTY—Wards Warrant every Riverside Tire and Tube to give satisfactory service without limit of months or miles used. If at any time, any Riverside Tire or Tube should fail to give satisfactory service, Wards will repair it free of charge, or replace it with a new tire or tube and charge only for service received.

SUPER POWER GRIP

$10.45 6.00-16—4-Ply

For motorists who need extra traction for bad roads, but also do part of their driving on paved roads. The "life track" rib in center of the tread gives more mileage on hard surfaced roads than the all knob Power Grip. It also produces less tire noise and better non-skid stopping on slippery pavement. These advantages are gained with little loss in traction as compared with all knob Power Grip. The all knob Power Grip gives you more pull and maximum traction. Warranted to be strictly First Quality.

Extra Savings on Super Power Grip Tire and De Luxe Tube
Be Sure to State Size and Art. No.

Size	4 PLY TIRE AND TUBE P564 A 1500	Ship. wt.
4.50-21	$9.05	22 lbs.
4.75-19	9.25	24 lbs.
5.00-19	9.25	24 lbs.
5.25-18	10.50	26 lbs.
5.50-17	10.95	28 lbs.
6.00-16	12.10	29 lbs.
Size	**6 PLY TIRE AND TUBE P564 A 1501**	**Ship. wt.**
4.50-21	**$10.15	25 lbs.
4.75-19	10.35	27 lbs.
5.00-19	10.35	27 lbs.
5.25-18	**11.95	29 lbs.
5.50-17	12.40	31 lbs.
6.00-16	13.75	33 lbs.

These Low Prices for Catalog Orders Only
Be Sure to State Size and Article Number

Size	4 PLY P564 A735	Wt. Lbs.	6 PLY P564 A736	Wt. Lbs.	DE LUXE TUBES P64 A 756	Ship. Wt.
4.40-21	$7.85	19	**$8.95	22	$1.50	3 lbs.
4.50-20	**7.95	23	**9.05	26	1.40	2 lbs. 12 oz.
4.50-21	7.85	19	**8.95	22	1.50	3 lbs.
4.75-19	7.95	21	9.05	24	1.60	3 lbs.
4.75-20	**7.95	23	**9.05	26	1.40	2 lbs. 12 oz.
4.75-21	7.85	19	**8.95	22	1.50	3 lbs.
5.00-19	7.95	21	9.05	24	1.60	3 lbs.
5.00-20	**7.95	23	**9.05	26	1.70	3 lbs. 4 oz.
5.25-17	9.45	24	10.95	27	1.85	3 lbs. 12 oz.
5.25-18	9.25	23	**10.75	26	1.55	3 lbs.
5.50-16	9.25	22	.....	..	1.70	3 lbs. 8 oz.
5.50-17	9.45	24	10.95	27	1.85	3 lbs. 12 oz.
6.00-16	10.45	25	12.15	29	2.00	3 lbs. 12 oz.
6.00-17	.....	..	**13.15	30	1.85	3 lbs. 12 oz.
6.00-18	.....	..	**14.15	31	1.95	3 lbs. 12 oz.
6.00-19	.....	..	**14.65	33	1.95	4 lbs.
6.25-16	12.35	28	14.25	32	2.30	4 lbs. 8 oz.
6.50-16	12.35	28	14.25	32	2.30	4 lbs. 8 oz.
7.00-16	**14.25	34	**16.75	40	2.30	4 lbs. 8 oz.

**See Shipping note at left. Flaps furnished on Request—DeLuxe Tubes can be supplied with bent valves on Special Order. Do not specify Flaps or bent valves for use on drop center rims.

IMPORTANT TIRE PRICE NOTICE

It is Wards policy to maintain these Tire and Tube prices until a new catalog is issued. However, it may be necessary to adjust our prices without notice if there should be an abnormal increase in costs after this catalog is priced or issued due to additional taxation, market conditions or other causes. It also may be necessary to limit quantities on tire and tube orders because of difficulty in securing materials. No dealer orders accepted.

ALL KNOB POWER GRIP

$8.95 6.00-16—4-ply

Gives greatest traction in mud and snow. Hundreds of long spike-like knobs dig in and give you traction forward, sideways and reverse. Extra high knobs at the shoulder result in a flatter tread, which means more rubber in contact with the ground—more mileage without sacrificing Power Grip's tremendous traction.

Extra Savings on All Knob Power Grip Tire and De Luxe Tube
Be Sure to State Size and Art. No.

Size	4 Ply Tire and Tube P564 A 925	Ship. wt.
4.40-21	$8.10	21 lbs.
4.50-21	8.10	21 lbs.
4.75-19	8.30	21 lbs.
5.00-19	8.30	21 lbs.
5.25-18	9.90	26 lbs.
5.50-17	10.00	26 lbs.
6.00-16	10.60	27 lbs.
Size	**6 Ply Tire and Tube P564 A 930**	**Ship. wt.**
4.40-21	$9.05	24 lbs.
4.50-21	9.05	24 lbs.
4.75-19	9.25	24 lbs
5.00-19	9.25	24 lbs.
5.25-18	11.05	29 lbs.
5.50-17	11.35	29 lbs.
6.00-16	12.00	32 lbs.

These Low Prices for Catalog Orders Only
Be Sure to State Size and Article Number

Size	4 PLY P564 A 1850	Wt. Lbs.	6 PLY P564 A 1875	Wt. Lbs.	DE LUXE TUBES P64 A 387	Wt. Lbs.
4.40-21	$6.85	18	$7.85	21	$1.50	3
4.50-20	6.95	21	7.95	23	1.40	2 lbs. 12 oz.
4.50-21	6.85	18	7.85	21	1.50	3
4.75-19	6.95	18	7.95	21	1.60	3
4.75-20	6.95	21	7.95	23	1.40	2 lbs. 12 oz.
4.75-21	6.85	18	7.85	21	1.50	3
5.00-19	6.95	18	7.95	21	1.60	3
5.00-20	6.95	21	7.95	23	1.70	3 lbs. 4 oz.
5.00-21	**8.95	24	**10.35	27	1.70	3 lbs. 8 oz.
5.25-17	8.45	22	9.85	25	1.85	3 lbs. 12 oz.
5.25-18	8.25	22	9.45	25	1.95	3 lbs. 12 oz.
5.25-19	8.95	23	10.25	26	1.95	4
5.25-21	**8.95	24	**10.35	27	1.70	3 lbs. 8 oz.
5.50-16	8.15	19	**9.45	22	1.70	3 lbs. 8 oz.
5.50-17	8.45	22	9.85	25	1.85	3 lbs. 12 oz.
5.50-18	8.25	22	9.45	25	1.95	3 lbs. 12 oz.
5.50-19	8.95	23	10.25	26	1.95	4
6.00-16	8.95	23	10.35	28	2.00	3 lbs. 12 oz.
6.00-17	**9.95	24	**11.55	27	1.85	3 lbs. 12 oz.
6.00-18	.....	..	**12.25	27	1.95	3 lbs. 12 oz.
6.00-19	.....	..	**12.65	28	1.95	4
6.00-20	.....	..	**12.95	30	**2.00	4
6.00-21	.....	..	**13.25	32	**2.00	4
6.25-16	10.95	26	**12.75	29	2.30	4 lbs. 8 oz.
6.50-16	10.95	26	**12.75	29	2.30	4 lbs. 8 oz.
7.00-16	**12.25	31	**14.25	37	2.30	4 lbs. 8 oz.

**See Shipping note at left. Bent valves and flaps furnished on request. Do not specify them for drop center rims.

"Power Grips are the choice of most race drivers for dirt tracks where extra traction is needed." GUS SCHRADER, veteran racer.

A New Tire Lasts Longer with a New Tube

Wards Power Grips Always Get Through!

Through deep snow or thick gumbo, Power Grips always *get there*. You'll find them on Star Mail Routes traveling the back country roads where they must deliver, rain or shine—You'll find them on huge logging trucks wallowing in the snow and mud of the Rockies. Wherever men must travel into the rain, mud and snow, Power Grips are the most popular choice to *get through*.

FAST SHIPPING SERVICE—All popular size tires and tubes are shipped promptly from Stock or Wards Pittsburgh Warehouse; send order to nearer point. Other Sizes marked ** are shipped from Mail Order House only—send order there—you pay shipping charges from Mail Order House or Pittsburgh, whichever is nearer.

SPECIAL TERMS ON TIRES AND TUBES—LOW MONTHLY PAYMENTS

You Don't Need All Cash—Only $5.30 DOWN will bring you a pair of 6.00-16 Power Grips and DeLuxe Tubes on Wards Time Payment Plan—Only $5.62 a Month. See Page 943.

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RAYON SUPREME QUALITY



WARDS RIVERSIDE SUPREME QUALITY is a luxury tire. It was designed for those who want and can afford the ultimate in safety and mileage. Judged by price alone it is expensive because no expense has been spared in building it. Judged by its extra safety, quietness, comfort and thousands of extra miles it is unquestionably America's Supreme tire value.

Wards Riverside Supreme is made with RAYON cord. The 4-PLY RAYON body is actually stronger than a first quality, 6-PLY COTTON Tire, because rayon cords are thinner and pack more to the inch than cotton cords. In addition, rayon cords actually get stronger as driving heat dries them out. It is only in a rayon cord tire that you get the strength and safety of 6-ply construction with 4-ply riding comfort.

For the man who wants a wide margin of EXTRA SAFETY and the last degree of protection for himself and family, Wards Riverside Supreme Quality tire with rayon cord is the answer.

The thick tread brings you comfort because it is quiet and easy steering. It gives you long mileage because it is tough and wears evenly. The many angled non skid ribs quickly cut through rain or slush to give you positive anti-skid action.

WARRANTY—Wards Warrant every new Ward Tire and Tube to give satisfactory service, without limit as to months or miles used; if at any time, one should fail to give satisfactory service, we will repair it free of charge, or replace it with a new one and charge only for the service received.

FAST SHIPPING SERVICE—All popular size tires and tubes are shipped promptly from Stock or Wards Pittsburgh Warehouse; send order to nearer point. Other Sizes marked ** are shipped from Mail Order House only—send order there—you pay shipping charges from Mail Order House or Pittsburgh, whichever is nearer. Less popular sizes marked * are shipped only from Factory in Michigan or Wisconsin—send orders to Mail Order House or Pittsburgh—but you pay charges from Factory, Mail Order House or Pittsburgh, whichever is nearest.

Tire Prices Subject to change Without Notice. For Complete Explanation See Page 944.

RIVERSIDE SUPREME QUALITY

White-Black
$15.25 6.00-16

Black Sidewall
$13.45 6.00-16

$7.13 A MONTH
For 2 6.00-16 Black Sidewall Tires on Time Payments. The extra safety of Supreme costs only slightly more per month than Deluxe. See Page 943 for Details.

WHITE-BLACK SIDEWALL

One sidewall is white—the other black—you can turn either side out. When white walls become curb marked just reverse them.

4-Ply State Size	White-Black Tire P564A1700	Ship. Wt.	Supreme Tubes P64A383	Ship. Wt.
5.50-17	*$13.95	23 lbs.	$2.35	5 lbs. 4 oz.
6.00-16	**15.25	25 lbs.	2.55	5 lbs. 4 oz.
6.50-16	* 18.45	28 lbs.	3.00	6 lbs. 4 oz.
7.00-15	* 20.75	31 lbs.	**2.95	6 lbs. 4 oz.
7.00-16	* 21.25	31 lbs.	3.00	6 lbs. 4 oz.
7.50-16	* 26.75	36 lbs.	*3.75	7 lbs. 8 oz.
6-Ply	**P564A1715**	**Ship. Wt.**	**P64A383**	**Ship. Wt.**
7.50-16	*$30.50	40 lbs.	*$3.75	7 lbs. 8 oz.

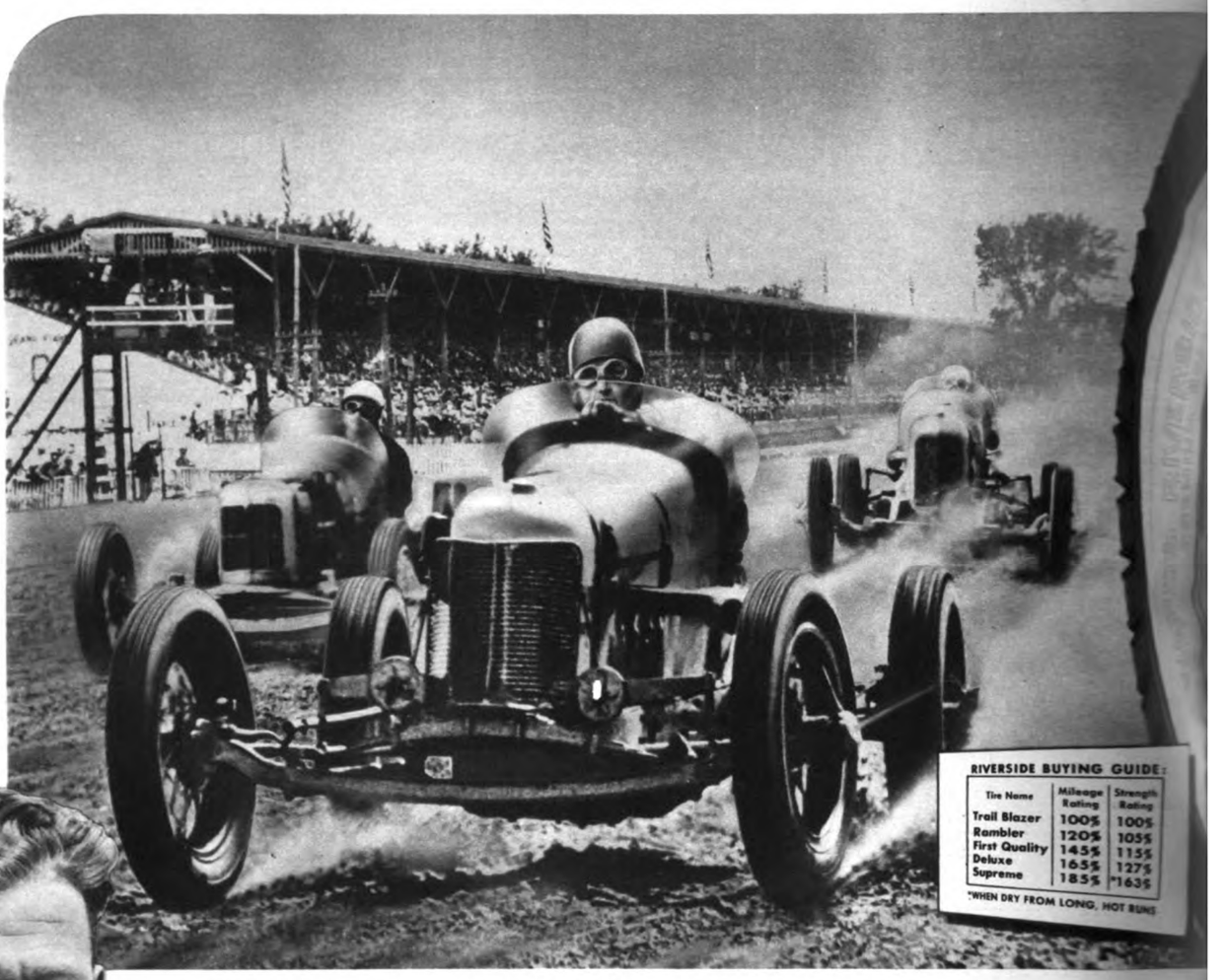
* See shipping note at left. Flaps furnished when requested. Do not specify them for drop center rims.

BLACK SIDEWALL

4-Ply State Size	Black Sidewall P564A1725	Ship. Wt.	Supreme Tubes P64A383	Ship. Wt.
5.50-17	*$12.45	23 lbs.	$2.35	5 lbs. 4 oz.
6.00-16	13.45	24 lbs.	2.55	5 lbs. 4 oz.
6.50-16	**16.45	27 lbs.	3.00	6 lbs. 4 oz.
7.00-15	*18.25	30 lbs.	**2.95	6 lbs. 4 oz.
7.00-16	**18.95	30 lbs.	3.00	6 lbs. 4 oz.
7.50-16	*23.75	35 lbs.	*3.75	7 lbs. 8 oz.
6-Ply	**P564A1735**	**Ship. Wt.**	**P64A383**	**Ship. Wt.**
7.50-16	*$26.95	39 lbs.	*$3.75	7 lbs. 8 oz.

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PREMIUM QUALITY



RIVERSIDE BUYING GUIDE

Tire Name	Mileage Rating	Strength Rating
Trail Blazer	100%	100%
Rambler	120%	105%
First Quality	145%	115%
Deluxe	165%	127%
Supreme	185%	*163%

*WHEN DRY FROM LONG, HOT RUNS



"Riverside De Luxe are my choice for safety on the race track and on the highway."
JIMMY WILBURN
C.S.R.A. 1940 Champion

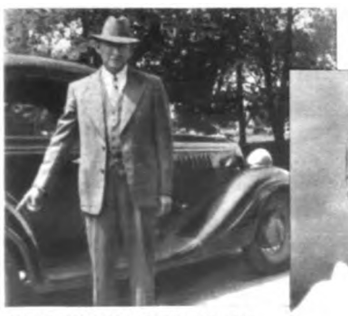
RIVERSIDE DE LUXE

Proven on the Race Track for Your Safety

Meteors of steel tearing through space at dizzy speed—Tires grinding on hard Clay—Burning skids at every turn. A blowout at any time might mean disaster. That's why race drivers use the BEST tires money can buy . . . and our reports show 9 out of every 10 race drivers choose RIVERSIDES to protect their lives. The Riverside tires they use are not specially built for racing purposes, they are exactly the same Riversides you can order on the opposite page. That's why you can feel safer with Riverside than any other brand we know of. Yet this extra safety and extra wear does not cost you more. In fact Riverside DeLuxe are priced less than nationally advertised first quality original equipment tires. They cost you less because the manufacturer saves when he sells to Wards—no salesmen—no credit losses. Wards cost of doing business is also less. We put these savings into lower prices and better quality.

RIVERSIDE TIRE WARRANTY—Wards Warrant every new Riverside Tire and Tube to give Satisfactory Service without limit as to months or miles used. If at any time any Ward Tire or Tube should fail to give satisfactory service, we will repair it free of charge or replace it with a new tire or tube and charge only for the service received. Adjustments will be made at any of Wards 9 Mail Order Houses or more than 600 Retail Stores.

NOTE: Wards Tire Prices are Subject to Change Without Notice. See Page 944 for Complete Explanation.



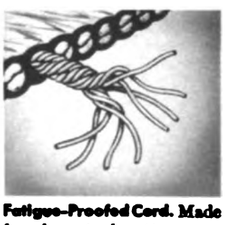
USED RIVERSIDES 10 YEARS
"For 5 years I drove a star mail route between Nashville and Clarksville over a rough road. I soon found that Riverside tires cost me less per mile than any other tire I have used. I have used Wards tires for ten years or more."
CHARLEY E. SELLEY
Nashville, Tenn.



TOP NOTCH RACER
EMORY COLLINS, I.C.M.A. 1938 Champion and runner-up in 1939 and 1940 has used Riversides in every race for years. Says Emory: "Riverside DeLuxes go on my pleasure car too—I need their extra safety on the highway as well as on the race track."



7 YEARS CONSTANT SERVICE
"I want to tell you of the service received from a Riverside DeLuxe. It has been used on a Model A Ford constantly for 7 years here in the Black Hills where we have gravel roads with plenty of rocks and mud. "Your Riverside DeLuxe has outlasted three sets of well known brands of tires."
JOE HEIDER, Fort Meade, So. Dak.



Fatigue-Proofed Cord. Made from long staple cotton, spun by a special process to give maximum strength and elasticity, and to retain these features longer. This means greater blowout resistance for the entire life of the tire.

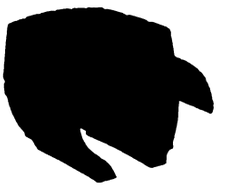


Rubber Dipped Cords. Ea cord is soaked in a bath pure liquid rubber *before* ing built into the tire. T *completely* cushions ea cord from the other, red friction. A Riverside not found in most tires.

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WITHOUT PREMIUM PRICE





Flatter Tread puts more rubber on the road—gives many added miles of service.

Wider Breaker Strips of full strength cord, extend far beyond tread shoulders—extra protection against rupture and separation.

IMPROVED for More Safety

Riverside DeLuxe—Wards Premium Quality Tire—now improved with Flatter Tread and Wider Breaker Strips! Gives surer safety for yourself, your family and your car. There's more rubber on the road for sure footed, quick stops, and a bonus of 10% more miles than our previous DeLuxe. There's also more protection against blowouts from rupture and tread separation caused by high speeds. These are extra-safety, extra-service tires that modern high speed cars require. This new construction is built into all 15 and 16 inch sizes—for other sizes we retain our original Premium Quality tread and double cord breaker strips that made Riverside DeLuxe the best in its class for years.

Important Tire Price Notice

It is Wards policy to maintain these Tire and Tube prices until a new catalog is issued. However, it may be necessary to adjust our prices without notice if there should be an abnormal increase in costs after this catalog is priced or issued due to additional taxation, market conditions or other causes. It also may be necessary to limit quantities on tire and tube orders because of difficulty in securing materials. No dealer orders.

How to Figure Special Terms On Tires and Tubes

25% Down, Balance in 3 Monthly Payments. Carrying Charge 6% of Unpaid Balance. Example:

Cash Price (Two 6.00-16 Tires and Tubes)	$22.60
Down Payment (25% of $22.60)	5.65
Balance for Figuring Carrying Charge	16.95
Carrying Charge (6% of $16.95)	1.02
Unpaid Time Payment Balance	17.97
3 Monthly Payments (⅓ of $17.97)	5.99

Be Sure to Add State Tax and Shipping Charges to Cash Price Before Figuring Terms

Reversible White-Black Sidewalls

$10.95 4-Ply 6.00-16

A handsome Tire that is white on one side and black on the other. Gives your car deluxe appearance at much lower cost than all-white tires. When the white side begins to look shabby, just reverse it and you have new-looking Black Sidewall Tires. Inside White Sidewall Tires are not entirely satisfactory because accumulated mud and grease leave permanent stains which spoil the white appearance. This is the type of White Sidewall Tires on most new Cars.

THESE LOW PRICES FOR CATALOG ORDERS ONLY
Be sure to State Size and Article No.

SIZE	4-PLY TIRES P564 A 2325 Price	Ship. Wt.	6-PLY TIRES P564 A 2375 Price	Ship. Wt.	De Luxe Tubes P64 A 317 Price	Ship. Wt.
5.50-16	*$9.95	20 lbs.	.....	.....	$1.70	3 lbs. 8 oz.
5.50-17	*10.25	22 lbs.	*$11.75	25 lbs.	1.85	3 lbs. 12 oz.
6.00-16	10.95	23 lbs.	**12.75	27 lbs.	2.00	3 lbs. 12 oz.
6.00-17	*11.95	24 lbs.	.....	.....	1.85	3 lbs. 12 oz.
6.25-16	*12.45	24 lbs.	.....	.....	2.00	3 lbs. 12 oz.
6.50-15	*12.95	25 lbs.	.....	.....	2.30	4 lbs. 8 oz.
6.50-16	**13.45	27 lbs.	**15.25	30 lbs.	2.30	4 lbs. 8 oz.
7.00-15	*14.75	30 lbs.	*16.95	36 lbs.	2.30	4 lbs. 8 oz.
7.00-16	**15.25	31 lbs.	*17.75	37 lbs.	2.30	4 lbs. 8 oz.
7.50-16	.....	.....	*21.95	43 lbs.	**2.80	5 lbs.

Riverside De Luxe Black Sidewalls

$9.65 4-Ply 6.00-16

THESE LOW PRICES ARE FOR CATALOG ORDERS ONLY
Be Sure to State Size and Article Number

SIZE	4-PLY TIRES P564 A 2300 Price	Ship. wt.	6-PLY TIRES P564 A 2355 Price	Ship. wt.	De Luxe Tubes P64 A 317 Price	Ship. wt.	Supreme Tubes P64 A 383 Price	Ship. wt.
4.40-21	$7.25	18 lbs.	.....	.....	$1.50	3 lbs.	*$1.95	3 lbs. 8 oz.
4.50-21	7.25	18 lbs.	.....	.....	1.50	3 lbs.	*1.95	3 lbs. 8 oz.
4.75-19	7.35	18 lbs.	.....	.....	1.60	3 lbs.	*2.05	3 lbs. 8 oz.
5.00-19	7.35	18 lbs.	.....	.....	1.60	3 lbs.	*2.05	3 lbs. 8 oz.
5.25-17	8.95	21 lbs.	.....	.....	1.85	3 lbs. 12 oz.	2.35	5 lbs. 4 oz.
5.25-18	8.55	21 lbs.	.....	.....	1.55	3 lbs.	*2.05	4 lbs.
5.50-16	8.75	20 lbs.	.....	.....	1.70	3 lbs. 8 oz.	*2.15	4 lbs. 8 oz.
5.50-17	8.95	21 lbs.	$10.45	25 lbs.	1.85	3 lbs. 12 oz.	2.35	5 lbs. 4 oz.
6.00-16	9.65	23 lbs.	11.15	27 lbs.	2.00	3 lbs. 12 oz.	2.55	5 lbs. 4 oz.
6.00-17	**10.45	24 lbs.	.....	.....	1.85	3 lbs. 12 oz.	2.35	5 lbs.
6.25-16	10.95	24 lbs.	**12.75	28 lbs.	2.00	3 lbs. 12 oz.	2.55	5 lbs. 4 oz.
6.50-15	*11.45	25 lbs.	.....	.....	2.30	4 lbs. 8 oz.	.....	.....
6.50-16	11.95	26 lbs.	13.75	30 lbs.	2.30	4 lbs. 8 oz.	3.00	6 lbs. 4 oz.
7.00-15	12.95	30 lbs.	**14.95	36 lbs.	2.30	4 lbs. 8 oz.	**2.95	6 lbs. 4 oz.
7.00-16	13.55	31 lbs.	**15.45	37 lbs.	2.30	4 lbs. 8 oz.	3.00	6 lbs. 4 oz.
7.50-16	.....	.....	*19.75	43 lbs.	**2.80	5 lbs.	*3.75	7 lbs. 8 oz.

Bent valves can only be furnished with DeLuxe tubes when requested. Flaps furnished when requested. Bent valves or flaps should not be used on drop center wheels.

Extra Savings! On Tire and Tube

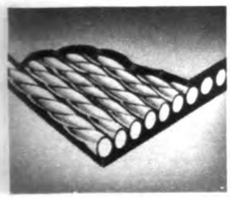
$11.30 4-Ply 6.00-16

Save twice! *First*—Save 25c to 50c over our regular low prices—*Second*—Save tire mileage too—A New Ward Riverside DeLuxe Tube in your new Tire holds air longer, minimizes under-inflation, the destroyer of more tire mileage than any other cause. Always order new tubes with new tires for full mileage.

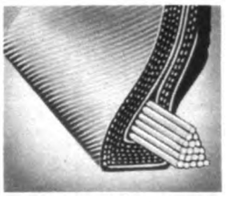
RIVERSIDE DE LUXE BLACK WALL TIRES—DE LUXE TUBES
Prices good only when bought together. For catalog orders only.
Be Sure to State Size and Article Number

SIZE	4-PLY TIRE With De Luxe Tubes P564 A 2320 Price	Ship. Wt.	6-PLY TIRE With De Luxe Tubes P564 A 2370 Price	Ship. Wt.
4.40-21	$8.50	21 lbs.	.....	.....
4.50-21	8.50	21 lbs.	.....	.....
4.75-19	8.70	21 lbs.	.....	.....
5.00-19	8.70	21 lbs.	.....	.....
5.25-18	9.80	24 lbs.	.....	.....
5.25-17	10.50	25 lbs.	.....	.....
5.50-16	10.15	24 lbs.	.....	.....
5.50-17	10.50	25 lbs.	$11.95	29 lbs.
6.00-17	**11.95	28 lbs.	.....	.....
6.00-16	11.30	27 lbs.	12.75	31 lbs.
6.25-16	12.55	28 lbs.	**14.30	32 lbs.
6.50-16	13.80	31 lbs.	15.55	35 lbs.
7.00-16	15.35	36 lbs.	**17.20	42 lbs.

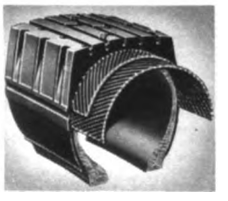
FAST SHIPPING SERVICE—All popular size Riverside DeLuxe tires and tubes are shipped promptly from Stock or Wards Pittsburgh Warehouse; send order to nearer point. Other Sizes marked ** are shipped from Mail Order House only—send order there—you pay shipping charges from Mail Order house or Pittsburgh, whichever is nearer. Less popular sizes marked * are shipped only from Factory in Michigan or Wisconsin—send orders to Mail Order House or Pittsburgh—you pay charges from Factory. Mail Order House or Pittsburgh whichever is nearest you.



Double Insulated Plies. After the cords have been soaked in pure liquid rubber and formed into plies a rubber compound is applied to each side. Forms a *double* thickness of heat-resisting rubber between each layer of cords.



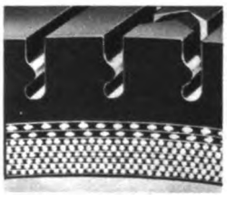
Safety Wire Bead. Made from many strands of wire drawn from steel of 280,000 pounds tensile strength per square inch. Each strand completely insulated with rubber to prevent friction between the wires.



New Larger Breaker Strips. Two extra layers of full strength cord in cushions of heat-resisting rubber. These new wider breaker strips give more resistance to rupture and greater protection against separation.



Heavy Sidewall Buttresses. This husky reinforcement protects the Riverside De Luxe against curb scuffing and rut wear. Sidewall rubber is specially compounded to resist cracking and checking caused by severe weather.



Thick Tread. Tough, deep tread specially compounded to resist wear. The ridge of rubber between tread members is a patented, stone ejecting lug, to keep stones from remaining in the groove causing injury and road noise.



Fast Stopping. Riverside's double-center traction with narrow rows of non-skid blocks and ribs cuts through the water film—gets down to the pavement.

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FIRST QUALITY CONSTRUCTION

RIVERSIDE FIRST QUALITY

These are Wards FIRST QUALITY Tires—the tires that compare with Nationally Advertised new car equipment. They are not Premium quality like Riverside DeLuxe, but are strictly first quality construction from bead to tread. Compare Wards prices with prices asked for Nationally Advertised new car tires. You'll find you will be many dollars ahead with Riversides.

Note These Features: (1) Fatigue-Proofed Cords—long staple cotton, specially spun for maximum strength, is extra resistant to blowouts. (2) Cords are dipped in pure liquid rubber to reduce friction and heat. (3) Double insulation of heat resisting rubber on both sides of each ply further reduces friction and heat. (4) Safety wire bead—strands of 280,000-lb. tensile strength steel wire, insulated with rubber. (5) Double breaker strips between tread and plies give 12% more resistance to ruptures. (6) Heavy sidewall buttresses protect against curb-scuff and rut wear.

11% Better by Actual Test than Other Nationally Known First Quality Tires

11%! That's the extra mileage you get from Riverside First Quality tires . . . the results we've found from actual road tests made on Wards Riversides against famous brand first quality tires, *not against famous brand second quality tires* which are comparable to Riversides *only in price*. This is convincing proof that quality is *built* into Riversides . . . that by any standard of value, initial cost or cost per mile, Riversides cost you less than other famous first quality tires.



Important Tire Price Notice

It is Wards policy to maintain these Tire and Tube prices until a new catalog is issued. However, it may be necessary to adjust our prices without notice if there should be an abnormal increase in costs after this catalog is priced or issued due to additional taxation, market conditions or other causes. It also may be necessary to limit quantities on tire and tube orders because of difficulty in securing materials. No dealer orders accepted.

RIVERSIDE WARRANTY

Wards Warrant every Ward tire and tube to give satisfactory service without limit as to months or miles used. If at any time any Ward tire or tube should fail to give satisfactory service, we will repair it free of charge, or replace it with a new tire or tube and charge only for the service you have received. Adjustments will be cheerfully and quickly made at any of Wards 9 Mail Order Houses or over 600 Retail Stores.

ONLY $5.38 A MONTH

Buys 2 6.00-16 Tires and Tubes On Special Time Payment Terms

Order a Pair Now. You don't need all cash—$5.08 down will buy Two 6.00-16 First Quality Tires and DeLuxe Tubes. See Page 943. Drive in safety on new Riversides.

4-Ply Tire and Tube Combination

Size 6.00-16 **$10.15**

BLACK SIDEWALL

You save TWICE—*First* you get the tube 25c to 45c cheaper when you buy it with a tire. *Second* you save on tire wear because a new tube holds air longer and minimizes underinflation, the cause of most tire failures. Always order new tubes too, when ordering new tires for full mileage and more dependable service.

RIVERSIDE FIRST QUALITY BLACK SIDEWALL TIRE AND DELUXE TUBE

Order by Art. No.—State Size

Size	4-Ply Tire With Tube P564 A 1646	Ship. Wt.
4.40-21	$7.70	19 lbs.
4.50-20	7.60	19 lbs.
4.50-21	7.90	20 lbs.
4.75-19	8.00	22 lbs.
5.00-19	8.00	22 lbs.
5.25-18	8.85	23 lbs.
5.25-17	9.50	25 lbs.
5.50-16	9.05	23 lbs.
5.50-17	9.50	25 lbs.
6.00-17	10.95	28 lbs.
6.00-16	10.15	25 lbs.
6.25-16	11.10	27 lbs.
6.50-16	12.35	29 lbs.
7.00-16	13.80	35 lbs.

Only DeLuxe tubes can be furnished with bent valves when requested. Bent valves and flaps are not needed and should not be used on Drop Center wheels. Flaps included when requested.

4-Ply White-Black Sidewall Tires

Size 6.00-16 **$9.45**

WHITE ON ONE SIDE—BLACK ON OTHER

All the beauty of Sparkling White Sidewalls but lower priced because they cost less to make. More practical too . . . If they should get badly curb scuffed, just turn them around and you have Black Sidewall tires that have not become permanently discolored by grease or oil.

This White-Black type of tire has supplanted the double whitewall tire on new cars. Order a pair today and another pair later, converting them all to White or Black Sidewall Tires at one time. Enjoy the safety of new Riversides while you drive.

THESE LOW PRICES FOR CATALOG ORDERS ONLY

Order by Article Number—State Size Wanted

Size	4-PLY TIRES P564 A 1650 Price	Ship. Wt.	DELUXE TUBES P64 A 317 Price	Ship. Wt.
5.50-16	**$8.65	19 lbs.	$1.70	3 lbs. 8 oz.
5.50-17	**8.95	22 lbs.	1.85	3 lbs. 12 oz.
6.00-16	9.45	22 lbs.	2.00	3 lbs. 12 oz.
6.25-16	*10.75	23 lbs.	2.00	3 lbs. 12 oz.
6.50-16	11.95	24 lbs.	2.30	4 lbs. 8 oz.
7.00-16	**13.25	30 lbs.	2.30	4 lbs. 8 oz.

FAST SHIPPING SERVICE

All Popular Sizes shipped from Mail Order House or Pittsburgh Warehouse; send order to Nearest Point.

Other Sizes marked ** are shipped from Mail Order House only; send order there. You pay charges from Mail Order House or Wards Pittsburgh Warehouse, whichever is nearer.

Less Popular Sizes marked * are shipped only from Factory in Michigan or Wisconsin, send order to the nearest Ward Mail Order House or to Wards Pittsburgh Warehouse. You pay shipping charges from Factory, Mail Order House or Pittsburgh Warehouse, whichever is nearest.

4-Ply Black Sidewall Tires

Size 6.00-16 **$8.45**

Riverside First Quality—much lower in price than other nationally advertised first quality tires. Compare Wards prices—see the savings you can make on Riversides. Wards can sell for less because our cost of doing business is less, because the manufacturer saves when he sells to us—no salesmen, no national advertising, no credit losses. We pass these savings on to you.

THESE LOW PRICES FOR CATALOG ORDERS ONLY

Order by Article Number—State Size Wanted

Size	4-Ply Tires P564 A 1600 Price	Ship. Wt.	Riverside DeLuxe Tubes P64 A 317 Price	Ship. Wt.
3.75-18	**$5.15	10 lbs.	**$1.20	2 lbs.
4.40-21	6.45	16 lbs.	1.50	3 lbs.
4.50-20	6.45	16 lbs.	1.40	2 lbs. 12 oz.
4.50-21	6.65	17 lbs.	1.50	3 lbs.
4.75-19	6.65	19 lbs.	1.60	3 lbs.
4.75-20	6.95	19 lbs.	1.40	2 lbs. 12 oz.
5.00-17	*6.85	18 lbs.	1.50	3 lbs.
5.00-19	6.65	19 lbs.	1.60	3 lbs.
5.00-20	6.95	21 lbs.	1.70	3 lbs. 4 oz.
5.25-17	7.95	22 lbs.	1.85	3 lbs. 12 oz.
5.25-18	7.55	20 lbs.	1.55	3 lbs.
5.25-19	8.75	23 lbs.	1.95	3 lbs. 12 oz.
5.25-20	**8.95	25 lbs.	**2.00	4 lbs.
5.25-21	8.95	24 lbs.	1.70	3 lbs. 8 oz.
5.50-16	7.65	19 lbs.	1.70	3 lbs. 8 oz.
5.50-17	7.95	22 lbs.	1.85	3 lbs. 12 oz.
5.50-18	7.55	20 lbs.	1.55	3 lbs.
5.50-19	8.75	23 lbs.	1.95	3 lbs. 12 oz.
5.50-20	**8.95	25 lbs.	**2.00	4 lbs.
6.00-16	8.45	22 lbs.	2.00	3 lbs. 12 oz.
6.00-17	9.45	24 lbs.	1.85	3 lbs. 12 oz.
6.25-16	9.45	23 lbs.	2.00	3 lbs. 12 oz.
6.50-16	10.45	24 lbs.	2.30	4 lbs. 8 oz.
7.00-15	**11.35	29 lbs.	2.30	4 lbs. 4 oz.
7.00-16	11.95	30 lbs.	2.30	4 lbs. 8 oz.
7.50-15	*12.95	30 lbs.	*2.30	4 lbs. 8 oz.

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...T EVERY DETAIL

Terms
4 MONTHS TO PAY

Order a pair now. You don't need all cash. $4.05 Down, $4.29 a Month will buy Two 6.00-16 Rambler Tires and Tubes. Ride in safety on new Riversides. See Page 943.



...-Ply White-Black Tires

Size 6.00-16 **$10.95**

...iverside First Quality 6-ply ...res. Popular White-Black style white on one side, black on other. ...lay be reversed when soiled.

...HESE PRICES FOR CATALOG ONLY
Order by Art. No.—State Size.

Size	6-PLY TIRES P564 A 2485 Price	Wt. lbs.	DELUXE TUBES P64 A 317 Price	Ship. Wt. lbs.	Oz.
...00-16	$10.95	26	$2.00	3	12
...50-16	**13.75	28	2.30	4	8
...00-16	*15.75	36	2.30	4	8

6-Ply Tire and Tube Combinations

Size 6.00-16 **$11.30**

BLACK SIDEWALL

Riverside First Quality Black Wall 6-Ply Tire and DeLuxe Tubes.

Order by Art. No.—State Size

Size	P564A2480	Ship. Wt.
4.40-21	**$8.70	23 lbs.
4.50-21	**8.70	23 lbs.
4.75-19	9.00	24 lbs.
5.00-19	9.00	24 lbs.
5.25-17	10.75	28 lbs.
5.25-18	9.80	29 lbs.
5.50-17	10.75	28 lbs.
6.00-16	11.30	29 lbs.
6.00-17	**12.30	34 lbs.
6.25-16	12.45	30 lbs.
6.50-16	14.00	32 lbs.
7.00-16	**15.55	40 lbs.

6-Ply Black Sidewall

Size 6.00-16 **$9.65**

Order by Article Number and Be Sure to State Size

Size	6-Ply Tires P564 A 2450 Price	Ship. Wt.	Riverside De Luxe Tubes P64 A 317 Price	Sh. Wt. Lbs.	Oz.
4.40-21	**$7.45	20 lbs.	$1.50	3	
4.50-20	**7.35	19 lbs.	1.40	2	12
4.50-21	**7.45	20 lbs.	1.50	3	
4.75-19	7.65	21 lbs.	1.60	3	
5.00-19	7.65	21 lbs.	1.60	3	
5.25-17	9.25	24 lbs.	1.85	3	12
5.25-18	8.55	26 lbs.	1.55	3	
5.25-21	**10.35	28 lbs.	1.70	3	8
5.50-17	9.25	24 lbs.	1.85	3	12
5.50-18	8.55	26 lbs.	1.55	3	
5.50-19	**10.15	27 lbs.	1.95	3	12
5.50-20	**10.35	29 lbs.	**2.00	4	
6.00-16	9.65	25 lbs.	2.00	3	12
6.00-17	**10.85	30 lbs.	1.85	3	12
6.00-18	11.65	30 lbs.	1.95	3	12
6.00-19	11.95	31 lbs.	1.95	3	12
6.00-20	**12.25	33 lbs.	**2.00	4	
6.00-21	**12.75	34 lbs.	**2.00	4	
6.25-16	10.85	26 lbs.	2.00	3	12
6.50-16	12.15	28 lbs.	2.30	4	8
6.50-17	**10.85	30 lbs.	1.85	3	12
6.50-18	11.65	30 lbs.	1.95	3	12
6.50-19	11.95	31 lbs.	1.95	3	12
6.50-20	**12.25	33 lbs.	**2.00	4	
7.00-16	**13.75	35 lbs.	2.30	4	8
7.00-17	*14.75	37 lbs.	**2.40	4	4
7.00-18	*15.25	37 lbs.	2.50	4	8
7.00-19	*15.45	39 lbs.	2.50	4	8
7.00-20	*15.95	40 lbs.	**2.55	4	12

Flaps furnished upon request. Only DeLuxe tubes can be furnished with bent valves when so requested. Flaps and bent valves should not be used on drop center wheels.

RIVERSIDE RAMBLER

Low Priced but with *Extra* Quality

Size 6.00-16 **$6.98** Size 4.50-21 **$5.29**

Ramblers are Good Tires. They are not equal in mileage or carcass strength to Premium Quality Riverside DeLuxe or Riverside First Quality, but they *are* made much better than other tires of similar price. We have deliberately made them better because Wards refuse to offer a tire under the Riverside Brand that will not give extra service.

They are the only tire in their price class with *all* the extra mileage features shown above *plus* fatigue-proof cords which keep their original strength and elasticity much longer. Riverside Ramblers carry Wards full Warranty. See opposite page.

THESE PRICES FOR CATALOG ORDERS ONLY
Order by Article No. and State Tire Size

Size	Rambler Tires 4 Ply P564 A 305	Ship. Wt.	Riverside Tubes P64 A 348	Ship. Wt.
4.50-21	$5.29	15 lbs.	$1.05	2 lbs. 4 oz.
4.75-19	5.39	16 lbs.	1.15	2 lbs. 4 oz.
5.00-19	5.39	16 lbs.	1.15	2 lbs. 4 oz.
5.25-17	6.59	18 lbs.	1.35	3 lbs.
5.25-18	6.29	17 lbs.	1.15	2 lbs. 8 oz.
5.50-16	6.49	18 lbs.	1.20	3 lbs.
5.50-17	6.59	18 lbs.	1.35	3 lbs.
6.00-16	6.98	20 lbs.	1.35	3 lbs.
6.25-16	8.79	23 lbs.	1.60	4 lbs.
6.50-16	8.79	23 lbs.	1.60	4 lbs.

Extra Savings on Rambler Tire with Riverside Tube $8.10 6.00-16

Size	Ship. Wt.	P564 A 600	Size	Ship. Wt.	P564 A 600
4.50-21	18 lbs.	$6.15	5.50-16	21 lbs.	$7.45
4.75-19	19 lbs.	6.35	5.50-17	21 lbs.	7.75
5.00-19	19 lbs.	6.35	6.00-16	23 lbs.	8.10
5.25-17	21 lbs.	7.75	6.25-16	27 lbs.	10.10
5.25-18	20 lbs.	7.25	6.50-16	27 lbs.	10.10

RIVERSIDE TRAIL BLAZER

Wards Lowest Priced Tire

Size 4.40-21 **$4.39** Size 6.00-16 **$5.98**

Trail Blazer gives you good, safe mileage at the lowest price. It is *not* a best quality tire. We do not want to represent it as one. We do want you to know its good points. For instance the new rib type tread is quieter, faster-stopping, and it wears evenly, therefore longer. The carcass is well built, made with doubly insulated plies and double breaker strips to absorb shocks

You can buy Trail Blazers with confidence, for Wards will not jeopardise your safety to make a low price, but if you wish to spend a minimum for tires, get Trail Blazer in preference to "cheap" unwarranted tires. Carries Wards full Warranty. See opposite page.

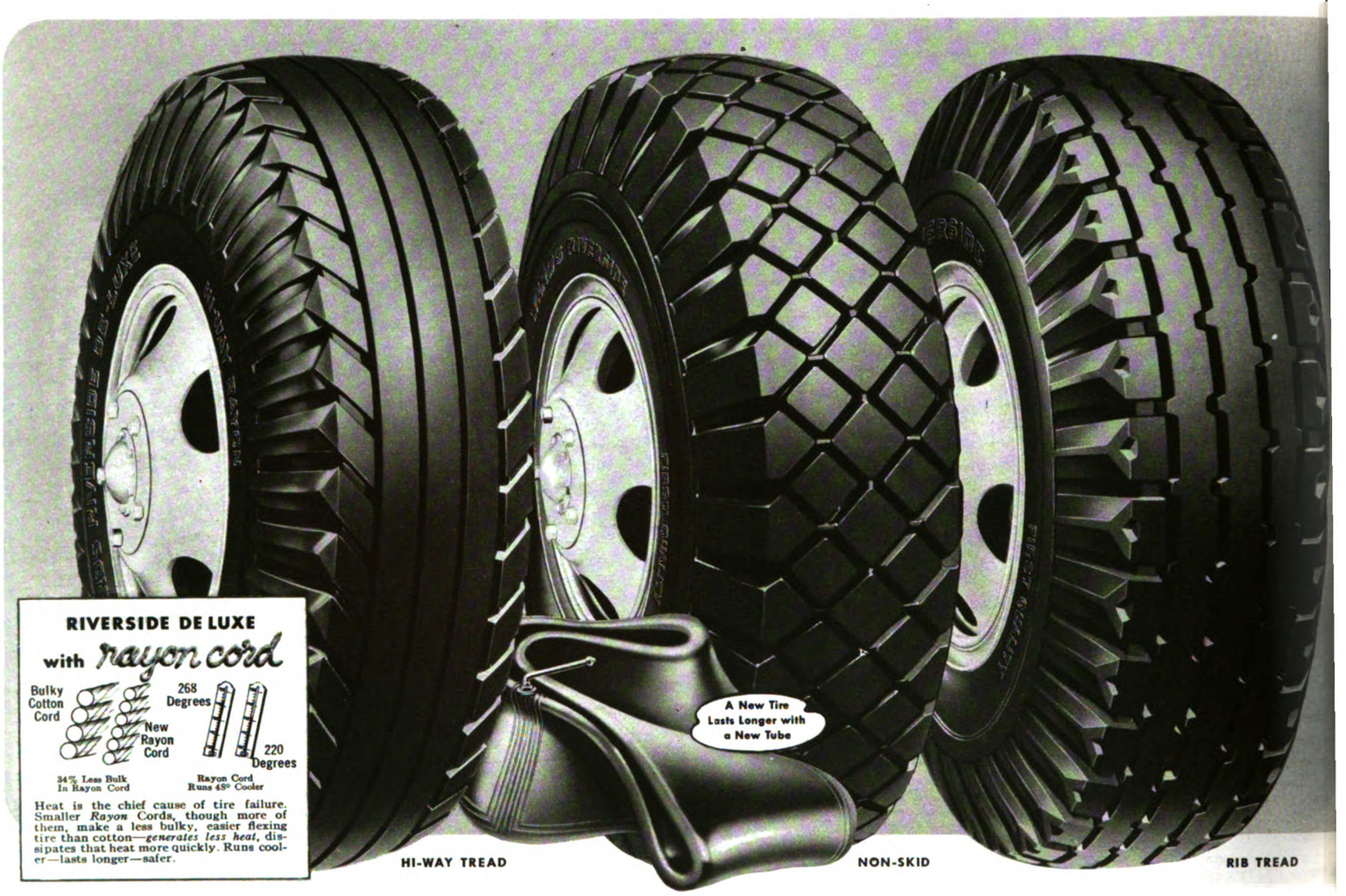
THESE LOW PRICES FOR CATALOG ORDERS ONLY
Order by Article Number—Be Sure to State Size

Size	TRAIL BLAZER TIRES P564 A 1540 Price	Ship. wt.	RIVERSIDE TUBES P64 A 348 Price	Ship. Wt.
29x4.40-21	$4.39	14 lbs.	$1.05	2 lb. 4 oz.
4.50-20	4.45	15 lbs.	1.00	2 lb. 4 oz.
30x4.50-21	4.49	15 lbs.	1.05	2 lb. 4 oz.
28x4.75-19	4.59	16 lbs.	1.15	2 lb. 4 oz.
4.75-20	5.15	18 lbs.	1.00	2 lb. 4 oz.
29x5.00-19	4.59	16 lbs.	1.15	2 lb. 4 oz.
5.00-20	5.15	18 lbs.	1.00	2 lb. 4 oz.
5.00-21	**6.29	21 lbs.	**1.25	2 lb. 12 oz.
5.25-17	5.49	18 lbs.	1.35	3 lb.
28x5.25-18	5.39	18 lbs.	1.15	2 lb. 8 oz.
5.25-19	6.29	20 lbs.	1.50	3 lb. 8 oz.
5.25-20	**6.98	23 lbs.	**1.60	3 lb. 8 oz.
5.25-21	**6.29	21 lbs.	**1.25	2 lb. 12 oz.
5.50-16	5.49	16 lbs.	1.20	3 lb.
5.50-17	5.49	18 lbs.	1.35	3 lb.
5.50-18	5.39	18 lbs.	1.15	2 lb. 8 oz.
5.50-19	6.29	20 lbs.	1.50	3 lb. 8 oz.
5.50-20	**6.98	23 lbs.	**1.60	3 lb. 8 oz.
6.00-16	5.98	18 lbs.	1.35	3 lb.
6.25-16	7.49	21 lbs.	1.60	4 lb.
6.50-16	7.49	21 lbs.	1.60	4 lb.

Flap included with each tire when requested. Not needed and should not be ordered for Drop Center Wheels.

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AMERICA'S BIGGEST FLEET OWNERS US



Riverside DeLuxe Premium Quality

$32.45 10-Ply 32x6

A new Riverside Truck Tire—Wards DeLuxe *made with Rayon Cord!* It's the biggest improvement in truck tires since the development of pneumatics to replace solids. Runs 48 degrees cooler than tires made with cotton cords. This means money in your pocket, because these new Rayon Tires will pile up mileage you never knew you could get.

The new rayon cords in Wards Riverside DeLuxe have 34% less bulk than cotton cords. They pack in closer together and there are many more of them. Because they are smaller and require less bulky insulation, they make an easier-flexing tire that generates *less* heat, and dissipates heat more quickly. In fact, as tire heat dries out the cord, these Rayon cords actually become stronger, while cotton cords lose strength. That's one reason why Wards Rayon Tires are 25% stronger than cotton tires tested under similar conditions.

This new Riverside DeLuxe Rayon costs you no more than cotton cord tires offered in other Top Quality Brands. It's a premium tire from tread to bead. Improved Hi-Way tread design gives maximum mileage at high speeds on all wheels on paved roads; also recommended for front wheels and trailers on any road. 100% new rubber tread specially compounded to resist cuts and wear. Extra wide breaker plies made of 2 heavy layers of full strength cord provide extra protection against separation. Dual wire bead construction gives maximum protection against bead failure.

State Size Wanted and Number of Plies—These Low Prices for Catalog Orders Only

Size	No. Plies	Ship. Wt. Lbs.	Hi-Way Tread P164 A 2100	DeLuxe Truck Tubes P464 A 347 Price	DeLuxe Truck Tubes P464 A 347 Ship. wt.	Size	No. Plies	Ship. Wt. Lbs.	Hi-Way Tread P164 A 2100	DeLuxe Truck Tubes P464 A 347 Price	DeLuxe Truck Tubes P464 A 347 Ship. wt.
32 x 6	10	71	**$32.45	$3.75	7 lbs.	8.25-20	10	92	**$46.25	$5.95	10 lbs.
34 x 7	10	79	*43.25	**5.25	9 lbs.	8.25-20	12	98	*53.25	5.95	10 lbs.
34 x 7	12	82	*49.85	**5.25	9 lbs.	9.00-18	10	97	*53.25	*6.85	12 lbs.
7.00-20	10	71	**32.45	3.75	7 lbs.	9.00-20	10	105	**54.95	*6.95	12 lbs.
7.50-20	8	66	**32.45	**5.25	9 lbs.	9.00-20	12	112	*64.75	*6.95	12 lbs.
7.50-20	10	78	*43.25	**5.25	9 lbs.	10.00-20	12	125	*69.95	*7.50	16 lbs.
7.50-20	12	84	*49.85	**5.25	9 lbs.	10.00-20	14	130	*84.75	*7.50	16 lbs.
8.25-18	10	83	*44.75	*5.85	10 lbs.						

* **See Shipping Information on Opposite Page.

Riverside First Quality

$26.45 10-Ply 32x6

Equal or Better than 1st Quality original equipment tires, that cost much more. ***Note These Features:*** (1) New buttress design on Rib Tread Tire has rugged shoulders to protect against rut, curb and road-edge scuffing—deep ventilating grooves dissipate tire heat. This means maximum mileage at high speeds on paved roads. (2) Double insulated carcass. Every cord soaked in pure liquid rubber. Every ply insulated from the other with a double cushion of heat-resisting rubber. (3) Heavy, double cord, extra wide breaker strips.

THESE LOW PRICES FOR CATALOG ORDERS ONLY
State Size Wanted and Number of Plies

Size	No. Plies	Ship. Wt.	Non-Skid P164 A 2400	Rib Tread P164 A 2430	Riverside Tubes P464 A 342	Riverside Tubes Ship. Wt.	Deluxe Tubes P464 A 347	Deluxe Tubes Ship. Wt.
30x5	8	43 lbs.	$14.95	**$14.95	$1.95	4 lbs.	$2.40	4 lbs.
†32x6	8	51 lbs.	19.75	**19.75	2.45	6 lbs.	3.00	6 lbs.
†Special for 30x5-in. Rim Only.								
32x6	10	70 lbs.	26.45	26.45	3.05	6 lbs.	3.75	7 lbs.
34x7	10	83 lbs.	35.95	**35.95	**4.15	9 lbs.	**5.25	9 lbs.
6.00-20	6	38 lbs.	12.95	**12.95	1.95	4 lbs.	2.40	4 lbs.
6.00-20	8	44 lbs.	14.95	**14.95	1.95	4 lbs.	2.40	4 lbs.
6.50-20	6	44 lbs.	15.45	**15.45	2.45	6 lbs.	3.00	6 lbs.
6.50-20	8	51 lbs.	19.75	**19.75	2.45	6 lbs.	3.00	6 lbs.
7.00-20	8	57 lbs.	20.65	**20.65	3.05	6 lbs.	3.75	7 lbs.
7.00-20	10	69 lbs.	26.45	26.45	3.05	6 lbs.	3.75	7 lbs.
7.50-20	8	74 lbs.	**26.45	**26.45	**4.15	9 lbs.	**5.25	9 lbs.
7.50-20	10	83 lbs.	35.95	**35.95	**4.15	9 lbs.	**5.25	9 lbs.
8.25-20	10	93 lbs.	**37.75	37.75	**4.85	10 lbs.	5.95	10 lbs.
8.25-20	12	101 lbs.	*43.95	*43.95	**4.85	10 lbs.	5.95	10 lbs.
9.00-20	10	111 lbs.	*45.45	*45.45	*5.45	12 lbs.	*6.95	12 lbs.
9.00-20	12	122 lbs.	*53.45	*53.45	*5.45	12 lbs.	*6.95	12 lbs.
10.00-20	12	125 lbs.	*57.75	*57.75	*5.95	15 lbs.	*7.50	16 lbs.
10.00-20	14	137 lbs.	*68.95	*68.95	*5.95	15 lbs.	*7.50	16 lbs.

For 32x4, 32x4½, 33x4½, 33x5, See Page 948. * **See shipping note opposite page.

Buy Your Tires on Credit

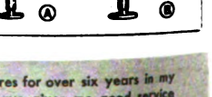
You Pay 25% Down and the balance in 3 equal monthly payments. Carrying charge only 6% on the unpaid balance. For example: 2—32 x 6 (10 Ply) First Quality Tires Cost $52.90. You Pay $13.23 Down and $14.02 a Month.

See Page 943

We Also invite regular Commercial credit accounts with established firms

—

Tubes Furnished with Angle Valves at no extra cost. State type wanted, A or B



"I have used Riversides for 10 years and will run Wards tires with the best. I pull a load off the mountain side with the bed nearly on the axle. I use Riverside and DeLuxe in Summer and make my own roads with Power Grips all through the Winter."
HOLMES LUMBER CO., Tres Piedras, New Mex.



"At present we are using approximately 40 Wards 9.75-20 Riversides. In two years we have used about 160 Riversides. We do not hesitate to recommend them for any heavy truck service as well as on passenger cars."
PORTLAND PENDLETON MOTOR FREIGHT, Inc., Pendleton, Ore.



"I have been using Riverside truck tires for over six years in my sand and gravel works. Riversides have given me good service for all the abuse they get from sharp rocks and bad roads in my type of work."
C. M. MARTIN, Escondido, Calif.



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RIVERSIDE TRUCK TIRES





IB TREAD

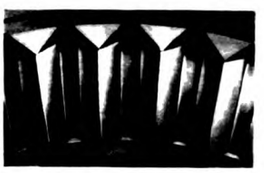
BIG USERS of Riversides, like Railway Express Agency—Armour and Co.—Willett Teaming Co.—Keeshin Motor Express Co. buy tires on one basis only: LOWEST COST PER MILE. Large fleet owners like these keep service records of every tire they use. They do no buying by guess-work. Their recommendation is a valuable buying guide to you. Their use of Riversides proves that they are the best tires for you on a miles per dollar basis.

WARRANTY—Wards warrant every Riverside Truck Tire or Tube to give satisfactory service without limit of time or mileage. If at any time a Riverside Truck Tire or Tube should fail to give satisfactory service, we will repair it without charge or replace it with a new tire or tube and charge only for service received. Adjustments made promptly, cheerfully.

FAST SHIPPING SERVICE—*All Popular Sizes* are shipped from Mail Order House or Wards Pittsburgh Warehouse; send order to nearer House. *Other Sizes* marked ** are shipped from Mail Order House only; send order there. You pay charges from Mail Order House or Pittsburgh, whichever is nearer. *Less Popular Sizes* marked (*) are shipped only from Factory in Michigan or Wisconsin; send order to Mail Order House or Pittsburgh. You pay charges from Factory, Mail Order House or Pittsburgh. *Tires weighing more than 70 lbs. are Not Mailable.*



Pre-Treated Cords—Each cord is soaked in a special bonding solution for maximum insulation against friction and internal heat. Cords are then spun by a special process to retain their high initial strength and elasticity. Gives longer service.



Husky Buttresses—The Massive Buttresses extend far down the sidewall to protect tire against rut and curb wear. The sidewall rubber is specially compounded to resist checking and cracking caused by flexing, sunlight, heat and age.



Wards Specify 280,000-lb. tensile strength steel wire for all truck beads. Extra Strong Dual Cable Bead construction is provided for greater safety in sizes 32x6, (10-ply) and larger in Riverside DELUXE and 34x7 and larger in Riverside First Quality.



Tough Deep Tread—Riversides Massive Tread is specially compounded to overcome heat and abrasive action of high speed service on the road. The extra thick, tough rubber resists cuts—gives more miles of non-skid service and extra safety.

New Riverside Standard $22.25

10-Ply 32x6

Wards Lowest Priced Truck Tires. They are not our best quality truck tires: We do not want to represent them as such. But we do want you to know their good points. For instance, the new rib tread is designed for fast, long, even wear, with heavy sidewall buttresses that protect tire from rut, curb and road-edge wear. The carcass is well built, made with rubber dipped cords and double breaker strips to absorb shocks.

You can buy Riverside Standards with confidence, for Wards will not sacrifice quality just to make a low price. If you wish to spend a minimum for truck tires, and yet be sure of quality, get Riverside Standards in preference to "cheap," unwarranted tires.

THESE LOW PRICES FOR CATALOG ORDERS ONLY
State Size Wanted and Number of Plies

Size	No. Plies	Ship. Wt. Lbs.	Riverside Standard Tires P164 A 505	Riverside Tubes P464 A 342 Price	Ship. Wt.
30 x 5	6	38	$11.95	$1.95	4 lbs.
†32 x 6	8	50	17.45	2.45	6 lbs.
†Special for 30x5 inch rim only.					
32 x 6	10	70	22.25	3.05	6 lbs.
6.00-20	6	38	11.95	1.95	4 lbs.
6.50-20	6	43	13.45	2.45	6 lbs.
6.50-20	8	50	17.45	2.45	6 lbs.
7.00-20	8	56	18.25	3.05	6 lbs.
7.00-20	10	70	22.25	3.05	6 lbs.

Riverside Power Grips $28.45

10-Ply 32x6

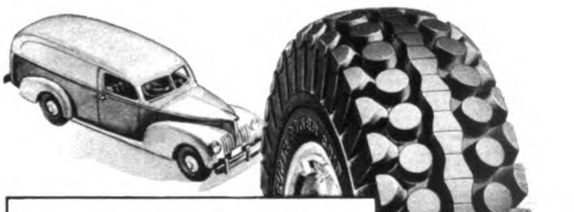
Power Grips' long, tough, rubber knobs dig in and give you positive traction. They hold in all directions—pull equally well forward or reverse, also help prevent side slipping. Power Grips are self-cleaning; the knobs snap apart and kick out the dirt or snow as the tire revolves. Gives you sure-footed traction. Power Grips' construction is the same high quality as Riverside First Quality described on opposite page.

THESE LOW PRICES FOR CATALOG ORDERS ONLY
State Size Wanted and Number of Plies

Size	No. Plies	Ship. Wt. Lbs.	Power Grip Tread Tire P164 A 320	Deluxe Truck Tubes P464 A 347 Price	Ship. Wt.
30 x 5	8	43	$16.95	$2.40	4 lbs.
†32 x 6	8	52	**22.25	3.00	6 lbs.
†Special for 30x5 inch rim only.					
32 x 6	10	72	28.45	3.75	7 lbs.
34 x 7	10	93	*40.45	**5.25	9 lbs.
6.00-20	6	39	14.95	2.40	4 lbs.
6.50-20	6	43	**17.25	3.00	6 lbs.
7.00-20	8	57	**23.45	3.75	7 lbs.
7.50-20	8	65	**29.95	**5.25	9 lbs.
8.25-20	10	97	*42.95	5.95	10 lbs.
9.00-20	10	116	*50.95	*6.95	12 lbs.

*See Shipping note at upper right. **Not Stocked at Pittsburgh.

Wards Tire Prices Subject to Change Without Notice.
For Explanation See Page 944



RIVERSIDE TIRES FOR LIGHT DELIVERY TRUCKS

Cut your tire costs with these heavy service balloons for light delivery trucks. They're specially designed for hard work and heavy loads. Use *Super Power Grip* for extra traction in mud and snow, *DeLuxe Heavy Service* for general delivery service. Built with rubber dipped, fatigue-proofed cords, extra strong bead, double cord breaker strips and tough, long wearing tread.

State Size and No. of Plies

Size	No. Plies	Super Power Grip P164A 801	Ship. wt. lbs.	DeLuxe Heavy Service P164A 826	Ship. wt. lbs.	DeLuxe Truck Tubes P464 A 347	Ship. wt. lbs.
6.00-16	6	**13.25	31	**12.95	29	†$2.00	4
6.00-17	6	.....	..	*14.25	30	**2.20	4
6.50-16	6	**15.45	35	*15.25	32	†2.30	5
7.00-15	6	**16.95	37	**15.45	34	†2.30	4
7.00-15	8	**18.95	42	*17.45	38	†2.30	4
7.00-16	6	**18.75	43	*18.25	40	**2.65	5
7.00-17	6	**20.95	47	*20.95	42	**2.75	5
7.50-16	8	**24.75	54	*24.95	50	**2.65	5
7.50-17	8	*27.25	57	*27.45	53	**2.75	5

*Shipped from Factory. See shipping note above. †DeLuxe Passenger Tubes.

I have used Riversides for the last ten years. Two tires have given unusual service. One 32x6, 10-ply was used on 4 different trucks, lasted ten years—the other is still going.

G. R. MILLER, Maryville, Calif.



We are operating 13 trucks, ½ to 12 tons. For several years we have used Riversides. We not only get exceptionally good mileage but have never had need for a tire adjustment.

CAPITAL CITY TRANSFER CO., Salem, Ore.



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RIVERSIDE TRACTOR TIRES



SET FOR 4 WHEELS
Tires, Tubes and Rims on
TERMS AS LOW AS $10 DOWN
See Inside Back Cover

POWER GRIP	SUPER POWER-GRIP	NEW POWER-TRAC	TRACTOR IMPLEMENT	TRAC-RIB
$32.95	$39.25	$39.25	$8.25	$8.25
11-36/9.00-36 4-ply	11-36/9.00-36 4-ply	11-36/9.00-36 4-ply	Size 6.00-16	Size 6.00-16

Wards offer tractor tires, tubes, rims and wheels for all popular tractors. Write for complete change-over price for your tractor. Use Coupon below.

Wards Super Power Grip. Long tapering knobs that close together under the weight of the tractor and g-r-i-p the soil like spikes to give you maximum draw-bar pull; also help prevent side slip on hills. Then . . . as the tire rolls and that portion of the tire that was under load comes off the ground, the knobs *instantly snap apart* to throw out the soil—an exclusive feature of the patented, self cleaning, round knob tread on Riversides. Tread and sidewall are made of specially compounded rubber to resist cracking and sun-checking. They're First Quality Riverside construction throughout for long, hard service.

Wards Regular Power Grip. Same First Quality construction as Super Power Grip tractor tire above but lower in price because knobs are not as long. Ideal for hard or light soil conditions that do not need the extra traction of Super Power Grips.

Wards New Power Trac. If you prefer a "Bar-Tread" Tire, Wards new Riverside Power Trac is the buy for you. Same first quality construction and material as Wards Super Power Grip. "Paddle-Wheel" power produced by full height bars, straight across center of tread, gives maximum traction. Heavily buttressed bars resist bending, cracking.

Wards Trac-Rib Front Tire. Provides improved steering in loose soil. Bites into ridges, permits shorter turns—smooth design eliminates "balling up" with mud—Rides on Lister Ridges with minimum steering effort.

Wards Tractor and Implement Front Tire. Permits easier steering and higher speed on highway—They do not bog down in soft soil.

WARRANTY. All Ward Tractor Tires are warranted to give satisfactory service without limit of months or mileage.

FRONT WHEEL TRACTOR TIRE EQUIPMENT

TIRE SIZE	No. Plies	TRAC-RIB TIRE 264 A 754	TRAC-RIB TIRE Ship. Wt.	TRACTOR IMPLEMENT 264 A 753	TRACTOR IMPLEMENT Ship. Wt.	TRACTOR TUBE †Deluxe Pass. Tube 264 A 829	TRACTOR TUBE Ship. Wt.	RIMS ONLY 264 A 832	RIMS ONLY Ship. Wt.	WHEELS AND RIMS 264 A 835	WHEELS AND RIMS Ship. Wt.
5.00-15	4	$6.65	15 lbs.	$6.65	14 lbs.	$1.20	2 lbs. 8 oz.	$1.20	9 lbs.	$5.95	26 lbs.
5.50-16	4	7.25	18 lbs.	7.25	18 lbs.	†1.70	3 lbs. 8 oz.	1.20	12 lbs.	5.95	38 lbs.
6.00-16	4	8.25	22 lbs.	8.25	19 lbs.	†2.00	3 lbs. 12 oz.	1.20	12 lbs.	5.95	38 lbs.
6.00-20	4	.....	.....	9.95	27 lbs.	2.00	3 lbs. 8 oz.	1.95	16 lbs.	6.95	47 lbs.
7.50-10	4	13.25	23 lbs.	13.25	22 lbs.	1.90	3 lbs. 8 oz.	.....	.....	16.95	121 lbs.
7.50-16	4	*11.75	32 lbs.	*11.75	28 lbs.	†2.80	5 lbs. 4 oz.	1.45	13 lbs.	5.95	39 lbs.
7.50-18	4	12.25	34 lbs.	12.25	33 lbs.	2.95	5 lbs. 4 oz.	2.15	21 lbs.	6.95	40 lbs.
7.50-20	4	*13.95	38 lbs.	13.95	37 lbs.	3.00	5 lbs. 4 oz.	2.50	23 lbs.	7.95	51 lbs.

REAR WHEEL TRACTOR TIRE EQUIPMENT


Wide Base


Conventional Base

Most 1940 and 1941 tractors are equipped with Wide Base Tires. Wide base tires are really conventional size tires mounted on wider rims. For example, the 9.00-36 conventional size tire mounted on a wide base rim actually becomes an 11-36 size wide base tire. Mounting conventional tires on wide base rims gives most of the effect of oversizing without the use of oversize tires—permits greater air capacity, puts more tread in contact with the ground for greater flotation and more draw bar pull. They carry more liquid ballast because of the wider cross sectional width, which also produces additional draw bar pull.

Wards tires for wide base or conventional rims are offered in Power Grip, Super Power Grip and the New Power Trac as listed in table below.

Order by Article Number—State No. of Plies and Size of Tire Wanted.

TIRE SIZE When Used on Wide Base Type Rim	When Used on Drop Center Conventional Type Rim	Ply	Super Power Grip Tire 264 A 851	Wt. Lbs.	Power Grip Tire 264 A 852	Wt. Lbs.	Power Trac Tire 264 A 853	Wt. Lbs.	Tractor Tube 264 A 854	Wt. Lbs.	Wide Base Rims 264 A 834	Wt. Lbs.	Conventional or Drop Center Rims 264 A 833	Wt. Lbs.	Wide Base or Conventional Wheels with Rims 264 A 855	Wt. Lbs.
9-38	.....	4	$31.45	84	.....	..	*$31.45	85	$6.95	14	$6.65	46	.....	..	$21.95	160
10-38	.....	4	39.75	98	.....	..	* 39.75	96	7.75	15	7.45	55	.....	..	22.75	160
11-28	.....	4	32.45	98	.....	..	* 32.45	89	7.75	16	5.95	44	.....	..	17.25	100
11-28	.....	6	38.95	105	.....	..	* 38.95	97	7.75	16	5.95	44	.....	..	17.25	100
11-36	9.00-36	4	39.25	106	$32.95	86	* 39.25	94	7.35	17	6.95	52	$7.95	59	22.75	170
11-36	9.00-36	6	47.75	116	.....	..	.....	..	7.35	17	6.95	52	7.95	59	22.75	170
11-38	.....	4	*42.45	125	.....	..	* 42.45	114	9.25	20	8.45	58	.....	..	24.25	160
11-38	.....	6	52.95	135	.....	..	* 52.95	125	9.25	20	8.45	58	.....	..	24.25	160
11-40	9.00-40	4	43.75	117	.....	..	* 43.75	104	8.25	17	7.95	57	8.95	65	26.95	185
12-36	10.00-36	4	44.95	126	.....	..	* 44.95	107	9.05	20	9.55	76	9.55	71	24.25	180
12-36	10.00-36	6	54.25	136	45.45	112	* 54.25	118	9.05	20	9.55	76	9.55	71	24.25	180
13-24	11.25-24	4	39.25	109	.....	..	* 39.25	93	6.85	15	6.65	45	6.65	47	17.75	115
13-24	11.25-24	6	47.75	117	40.45	96	* 47.75	101	6.85	15	6.65	45	6.65	47	17.75	115
13-28	11.25-28	4	42.45	122	.....	..	* 42.45	106	7.75	16	7.75	61	7.75	54	20.95	135
13-28	11.25-28	6	50.95	132	42.95	110	* 50.95	115	7.75	16	7.75	61	7.75	54	20.95	135
13-36	11.25-36	6	56.25	162	47.25	136	* 56.25	140	9.05	20	9.55	76	9.55	71	24.25	180
14-24	12.75-24	6	57.25	144	.....	..	.....	..	8.75	17	6.65	45	6.65	47	17.75	115
14-28	12.75-28	6	63.25	162	52.95	144	* 63.25	139	9.95	19	7.75	61	7.75	54	20.95	140
14-32	12.75-32	6	69.75	180	58.75	162	* 69.75	156	11.55	20	8.65	69	8.65	64	24.25	175
15-28	13.50-28	6	71.25	178	.....	..	* 71.25	158	9.95	21	7.75	61	7.75	54	20.95	140
15-32	13.50-32	6	76.45	206	64.25	198	* 76.45	179	11.55	25	8.65	69	8.65	64	24.25	175

SHIPPING POINTS: Tires and Tubes are shipped promptly from stock in Warehouse in Indianapolis, Ind., except sizes marked ★ which are shipped only from Factory near LaCrosse, Wis., but you pay shipping charges only from Albany or Indianapolis whichever is nearer you. **All Rims** are shipped from warehouse in Indianapolis, Ind. **Wheels**—Because of the many wheels required for the different make and model tractors, it is impossible to state whether the wheels will be shipped from factory near Moline, Ill., or warehouse at Indianapolis, Ind. This information will be given you with the answer to your inquiry. See coupon below. You pay shipping charges on rims and wheels from shipping point.



SEND THIS COUPON

For Free Tractor Tire Book and Recommended Equipment for Your Tractor

Fill in the coupon below and mail today. Wards Tire Engineering Department will send you free, a special 16-page illustrated tractor tire book, and recommend proper tire and rim or wheel changeover equipment for your model tractor and soil condition. Prices will also be quoted for your convenience when ordering.

Name.....Street and No.....

Postoffice.....State.....

Tractor Make.....Year.....Serial No. (Not Motor No.).....

Model (Not Year).....Front Wheel Arrangement: Single ☐; Dual Wide ☐; Dual Narrow ☐.

Equipment Preferred: Rims only (for cut down wheels) ☐; or Wheels with Rims ☐

Type of Soil Farmed: Sand ☐; Sandy Loam ☐; Loam ☐; Gumbo ☐; Muck ☐.

If cultivating type tractor give width of crop row planted:.....inches.

New Tires LAST LONGER WITH NEW TUBES



Wards Riverside Quality	Riverside DeLuxe Quality	Riverside Supreme Quality
$1.35 6.00-16	$2.00 6.00-16	$2.55 6.00-16
A good serviceable Tube made of standard thickness rubber. High quality heat-resisting and tear-resisting red stock for good service.	19% thicker than Riverside. Holds air longer. Made of tough heat and tear-resisting rubber. Heavier gauged than most original equipment.	70% thicker than Riverside. Made of tough, black, heat-resisting rubber. Holds air up to 30% longer than the usual First Quality Tubes costing more.

HERE'S WHY WARDS TUBES ARE BETTER VALUES

Wards Tubes are thicker in all three qualities than other tubes in their price class. The thicker the inner tube, the longer it will hold air. This means longer, safer tire life because proper inflation reduces tire failure.

Wards Tubes have the following features: (1) Vitalized rubber—resists heat and aging. (2) Tear-resistant. (3) Nonporous—all impurities removed by double straining—no weak spots. (4) Molded round—fits tire without wrinkles. (5) Double-sealed all rubber valves. (6) Warranted satisfaction without limit of months or miles (*See Riverside Warranty on Preceding Pages*).

Size	RIVERSIDE P64 A 348	RIVERSIDE Ship. Wt.	RIVERSIDE DELUXE P64 A 317	RIVERSIDE DELUXE Ship. Wt.	SUPREME QUALITY P64 A 383	SUPREME QUALITY Ship. Wt.
4.50-21	$1.05	2 lbs. 4 oz.	$1.50	3 lbs.	*$1.95	3 lbs. 8 oz.
4.75-19	1.15	2 lbs. 4 oz.	1.60	3 lbs.	* 2.05	3 lbs. 8 oz.
5.00-19	1.15	2 lbs. 4 oz.	1.60	3 lbs.	* 2.05	3 lbs. 8 oz.
5.25-17	1.35	3 lbs.	1.85	3 lbs. 12 oz.	2.35	5 lbs. 4 oz.
5.25-18	1.15	2 lbs. 8 oz.	1.55	3 lbs.	* 2.05	4 lbs.
5.50-16	1.20	3 lbs.	1.70	3 lbs. 8 oz.	* 2.15	4 lbs. 8 oz.
5.50-17	1.35	3 lbs.	1.85	3 lbs. 12 oz.	2.35	5 lbs. 4 oz.
6.00-16	1.35	3 lbs.	2.00	3 lbs. 12 oz.	2.55	5 lbs. 4 oz.
6.50-16	1.60	4 lbs.	2.30	4 lbs. 8 oz.	3.00	6 lbs. 4 oz.
7.00-15	....	.....	2.30	4 lbs. 4 oz.	**2.95	6 lbs. 4 oz.
7.00-16	....	.....	2.30	4 lbs. 8 oz.	3.00	6 lbs. 4 oz.

If your size is not listed, see listing with tires on preceding pages. Only DeLuxe Tubes can be furnished with bent valves when requested. Do not specify bent valves for drop center wheels.

All Tire and Tube Prices Are Subject to Change Without Notice. For Complete Explanation See Page 944.

RIVERSIDE HIGH PRESSURE TIRES

Modern Tires for Older Cars



Brand new fresh tires. Dependable Riverside quality, with many of the good construction features of Riverside Balloons. For older cars, trucks. Same Warranty as other Riversides.

TIRE AND TUBE COMBINATION
P564A156—Tire and Riverside Tube. 30 x 3½ Cl. O. S. Shipping weight 16 pounds. **$6.15**

$4.95
Size 30 x 3½ Clincher Reg.

When Ordering Be Sure to State Art. No. and Size	High Pressure Tires P564 A 349	Ship. wt	Riverside Tubes P64 A 351	Ship. wt.
30 x 3 Clincher (4-Ply)	**$4.55	11 lbs.	**$1.00	1 lb. 12 oz.
30 x 3½ Cl. Reg. (4-Ply)	**4.95	12 lbs.	1.10	2 lbs.
30 x 3½ Cl.O.S. (4-Ply)	5.25	14 lbs.	1.10	2 lbs.
30 x 3½ S.S.O.S. (4-Ply)	*6.25	14 lbs.	1.10	2 lbs.
31 x 4 (4-Ply) Oversize	7.55	18 lbs.	**1.65	2 lbs. 4 oz.
32 x 4 (4-Ply) Oversize	8.65	20 lbs.	**1.65	2 lbs. 4 oz.
32 x 4 (6-Ply) Oversize	*9.95	22 lbs.	**1.65	2 lbs. 4 oz.
33 x 4 (4-Ply) Oversize	*9.25	20 lbs.	**1.65	2 lbs. 4 oz.
32 x 4½ (8-Ply)	*15.25	34 lbs.	*1.85	2 lbs. 12 oz.
33 x 4½ (8-Ply)	*15.95	35 lbs.	*1.85	2 lbs. 12 oz.
33 x 5 (8-Ply)	*18.95	46 lbs.	*2.10	4 lbs. 12 oz.

O.S. means Oversize. S.S. means Straight Side. Flaps included with all tires except 30 x 3—30 x 3½ Clincher. * ** See shipping note above.

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High Quality Greases


FOR CARS


FOR TRUCKS


FOR TRACTORS

Wards offer a Grease for every lubrication purpose on autos, trucks, tractors, farm equipment and stationary machine equipment. Each is made to meet the requirements of the parts for which it is recommended. Change grease regularly—it saves wear on vital parts and lowers maintenance cost. Same quality sells under a nationally known label at twice Wards prices.



LOW AS
6¾c
lb.
0-lb. Drum

HIGH PRESSURE GREASE GUNS

Make Greasing Easier... Save Time



ALEMITE
$249
19 oz.

BIG 19 OZ.
$198

19 OZ.
$169

SPECIAL COMBINATION
$369
25-lb. Grease and Gun Offer

gh Pressure Chassis Grease

quality waterproof Chassis Lubri- esigned for pressure guns. Use on e and Zerk system chassis bearings s; also on tractors and farm imple- . Will not harden or clog.
464—1-lb. Can..... 13c
7465—5-lb. Can..... 52c
Two 5-lb. Cans..... $.95
7463—25-lb. Pail..... $2.10
7460—100-lb. Drum..... 6.75

-lb. Bucket High Pressure Grease

al grease container with 2¼-in. ded plug at bottom fits any 2¼-in. Detach head of gun and attach to plug in container. Metal follower- forces all the grease down as you use epe grease free from dirt.
7481—Ship. wt. 33 lbs..... $2.19

Graphite Axle Grease

ractors, farm implements, wagons.
7474—1-lb. Can..... 9c
7484—5-lb. Can..... 40c
Two 5-lb. Cans..... 73c
7476—25-lb. Pail..... $1.59

nsmission and Differential Grease

-fluid—for most tractors, trucks to and 1929 and older cars. Heavy fib- grease. Not for Hypoid Gears.
7467—5-lb. Can..... 49c
5-lb. Cans..... 89c
7466—25-lb. Pail..... $2.05

Extreme Pressure Gear Grease

For transmissions and differentials, herring bone, double reduction, worm gears and steering gears. Not for cars before 1930 or for Hypoid gear units on 1937 and later cars.

Size	SAE 140 (Summer)	SAE 90 (Winter)	Price
5-lb Can..	561 A 7479	561 A 7480	55c
Two 5-lb Cans	561 A 7479	561 A 7480	99c
25-lb Pail	461 A 7461	461 A 7462	$2.39
100-lb Drum	261 A 7462	261 A 7463	7.95

Lubricant for Hypoid Gears

For extremely high pressures required for hypoid gear units on 1937-42 cars.
561 A 7480—SAE 90 Grade. 5-lb. Can. 59c
Two 5-lb. Cans..... $1.10

Water Pump Grease

Waterproof, non-dissolving lubricant.
61 A 7485—1-lb. Can..... 15c

Wheel and Universal Joint Grease

A fibrous grease that gives excellent protection to sensitive bearing surfaces.
61 A 7487—1-lb. Can..... 15c

Cup Grease For Cars, Trucks, Tractors

Where high pressure grease is not needed. Won't clog. Not for Alemite or Zerk.
61 A 7470—1-lb. Can..... 12c
561 A 7471—5-lb. Can..... 49c
Two 5-lb. Cans..... 89c
461 A 7472—25-lb. Pail..... $2.05
261 A 7475—100-lb. Drum..... 6.75

Alemite Gun

- Nationally Known and Widely Used.
- Handle Grip Allows Greater Leverage.
- Develops Pressure Up to 7,000 lbs.
- Aluminum Rust-Resisting Finish.
- Made of Steel.
- Handles Fluid Oil to Fibre Grease.
- Has Disappearing Plunger Handle.

Light-weight for easy operation and strongly constructed for durability. Has snap-on adapter for Hydraulic fittings. Follower rod slips into gun barrel after filling. Gun head has ⅛-in. standard pipe thread to which practically all other makes of coupling and tips can be attached. Instructions. *Postpaid.*

61 A 1461—19-oz. capacity. Overall length 21 in. $2.49
61 A 1462—24-oz. capacity. Overall lgth. 22½ in. $2.69

19 and 24-oz. Guns

- Large Handle Grip.
- Develops Pressure Up to 10,000 Pounds.
- Rust-Resisting Cadmium finish.
- Handles Anything from Fluid Oil to Fibre Grease.
- Special High Pressure Piston Fitted with Leakproof Metallic Fittings.
- Made Entirely of Steel.
- Has Disappearing Handle.

Gun head has ⅛-in. standard pipe thread. With instructions.

19-Oz. Capacity. Length 21 in. Barrel 10½ by 2¼ in. Ship. wt. 4 lbs. 8 oz.

61 A 1454—With push-type adapter for Hydraulic or Zerk fittings. (No. 1 or 2 below) $1.98
61 A 1455—With snap-on adapter for Hydraulic fittings (No. 1 below)..... $2.29

24-Oz. Capacity. Length 22½ in. Ship. wt. 5 lbs.

61 A 1456—With snap-on adapter for Hydraulic fittings. (No. 1 below)..... $2.40

19-oz. Gun

- Develops Working Pressure up to 10,000 Pounds.
- Made of Steel. Rust-resisting Lacquer Finish.
- Handles Anything From Fluid Oil to Fibre Grease for All Uses.
- Special High Pressure Piston is Fitted with a Leakproof Metallic Packing.
- Has Disappearing Plunger Handle.

Has ⅛-inch standard pipe thread to which practically all other makes of couplings and tips can be attached. Overall length 21 in. Barrel 10½ by 2¼ in. With pipe adapter. Instructions. Wt. 4 lbs. 8 oz.

61 A 1432—With push-type adapter for Hydraulic or Zerk fittings. (No. 1 or 2 below)..... $1.00
61 A 1433—With snap-on adapter for Hydraulic fittings. (No. 1 below)..$1.95

Grease and Gun

- Big 19-oz. High Pressure Gun. Develops to 10,000 Lbs. Pressure.
- 25-lb. Pail of Wards High Pressure Grease.

Grease comes in special container that has a 2¼-in. threaded plug at bottom that fits any 2¼-in. gun. Metal follower plate forces grease down as you use it.
461 A 7495—Push type adapter gun for Hydraulic or Zerk fittings. (1432) and 25-lb. pail of Grease (7481). Wt. 37 lbs..... $3.00
461 A 7497—Snap-on adapter gun for Hydraulic fittings (61 A 1433) and 25-lb. pail of grease (461 A 7481). Ship. wt. 37 lbs..... $3.95

5-lb. Grease and Gun Offer

561 A 7494—Push type adapter gun for Hydraulic or Zerk fittings (1432), 5-lb can (7465). Wt. 12 lbs. $2.07
561 A 7496—Snap-on adapter gun for Hydraulic fittings (1433) and 5-lb. can of grease (7465). Wt. 12 lbs..... $2.33

Farm Utility Lubricant



Low priced general utility Chassis Lubricant for autos, trucks, tractors and farm implements. 30 lbs. of grease packed in a galvanized bucket. Ship. wt., 35 lbs.
461 A 7468..... $2.39

Ship. Wts. on Grease

Ship. wts. (1-lb. can) 1 lb. 9 oz.; (5-lb. can) 7 lbs.; (two 5-lb. cans) 14 lbs.; (25-lb. pail) 31 lbs.; (100-lb. drums) 120 lbs. 1-lb., 5-lb., 25-lb. shipped from Stock; drums separately from Warehouse at Camden, N. J. Allow 3 extra days.

WHICH GREASE GUN SHALL I BUY?

High Pressure Lever Action for Hydraulic or Push Type Fittings. Develop tremendous pressure that gets grease into frozen or clogged fittings better. Use for general service on cars, trucks, tractors and farm implements. Fills by suction.

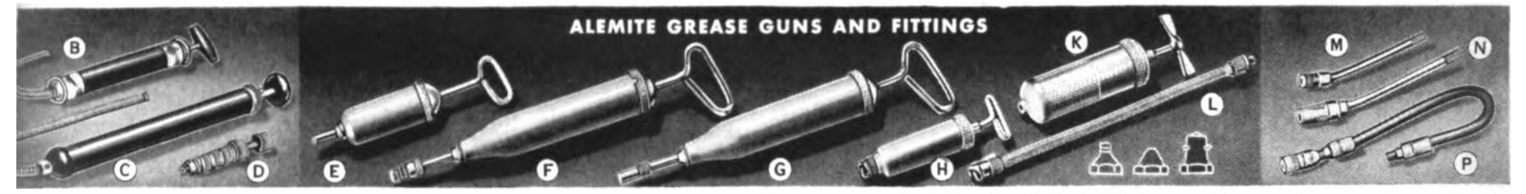
Push Action for Hydraulic, Push or Pin Type Fittings. Develop less pressure than lever type but are easier to use on hard-to-reach fittings such as king bolts, tie rod parts and water pumps where there is not sufficient room to operate a lever type gun. Must be filled by hand.

Air Pressure Action. Trigger type guns that require air pressure for operation. Reaches all fittings easily. Use in garage, repair shops, etc. where a large volume of greasing must be handled speedily. Check the type of fittings on your car to determine if they are hydraulic, push or pin type (see at right).



Fitting No. 1 Hydraulic Type | Fitting No. 2 Push Type | Fitting No. 3 Pin Type

ALEMITE GREASE GUNS AND FITTINGS



LOW PRICED GREASE GUN

For filling and emptying transmission and differential. Heavy 10 by 1⅛-in. al barrel. 7⅛-in. flexible metal hose.
1601—Ship. wt. 8 oz..... 32c

Grease or Oil Gun

For filling and emptying transmission and differential. Extra large metal rel 16 by 1⅛-in. with 18-inch flexible al hose.
1641—Ship. wt. 1 lb. 14 oz.... 85c

High Pressure Grease Ram

Fill with grease—a blow on the plunger produces 10,000 lbs. pressure. Frees ten spring shackles and bearings instantly. For all types of greasing systems fittings. 4½ in. long.
1640—Ship. wt. 11 oz..... 29c

USE WARDS TIME PAYMENT PLAN

HYDRAULIC TYPE GUN

For No. 1 fitting. Develops 5,000 lbs. pressure. *Postpaid.*
(E) 61 A 1575—3-oz. capacity... 89c
(F) 61 A 1585—5-oz. capacity... $1.59

ZERK TYPE GUN

For Hydraulic or Push Type Fittings (Nos. 1 and 2). Develops 5,000 lbs. pressure. *Postpaid.*
(G) 61 A 1586—5-oz. capacity $1.59

PIN TYPE GUNS FOR No. 3 FITTINGS (Postpaid)

(H) 61 A 1589—2-oz. Gun (No hose needed)..95c
(K) 61 A 1590—8-oz. Gun—order hose below $1.00
(L) 61 A 1591—14-in. Metal Hose (for 61 A 1590)..... 1.30

Alemite Hydraulic Type Fittings

All hydraulic type fittings are interchangeable with Zerk Push Type Fittings. Exact replacements for cars, trucks, and tractors. *Shipped Postpaid.*



⅛-inch Straight 61 A 1515 Each..13c	⅛-in. 67½° Angle 61 A 1516 Each..16c	⅛-inch Straight 61 A 1552 Each..4c	Drive-in for Ford A 61 A 1517 Each...4c
⅛-in. 90° Angle Type 61 A 1553 Each..10c	⅛-in. 67½° Angle 61 A 1554 Each...9c	⅛-inch 30° Angle 61 A 1510 Each..10c	

Important Size Information on Alemite Fittings—Sizes in listings above are pipe thread diameters having overall diameter same as diagrams at right.

If Outside Thread Diam. of Fitting is [redacted] order ⅛-in. Fitting. If Outside Thread Diam. of Fitting is this [redacted] Order ¼-in. Fitting.

Alemite Pin Type Fittings and Bushings

Exact replacements for cars, trucks and tractors. *Postpaid.*



⅛-in. Straight 61 A 1595—5c Each.....
½x¼-in. P.T. 61 A 1578—9c Each.....

HIGH PRESSURE GUN FITTINGS

(M) **6-in. Angle Pipe with Push Type Adapter** for Hydraulic or Zerk fittings. (No. 1 and 2 type fittings shown above.) Threaded for ⅛-in. Pipe Thread.
61 A 1451—Ship. wt. 9 oz.... 39c

(N) **6-in. Angle Pipe with Snap-on Adapter** for Hydraulic fittings only. (No. 1 type fitting shown above.) ⅛-in. pipe thread.
61 A 1452—Ship. wt. 13 oz.... 69c

(P) **Rubber Reinforced Grease Gun Hose.** About 14 in. long. Ship. wt. 7 oz.
61 A 1583—For Alemite Pin Type fittings (Type 3 above)..... $1.19
61 A 1584—For Hydraulic fittings. (No. 1 above.)..... $1.39









1-Quart Clear Glass Oil Bottle. Legal for dispensing.
61 A 9857—Ship. wt. 1 lb. 12 oz. Each. 10c; 2 for. 18c

etal Pour Spouts for Oil Bottle Above. Fits Mason s. Tinned metal with gasket, dust cap.

Flexible Spout. 9½ in. long. Ship. wt. 8 oz.
61 A 9850—Each..... 19c; 2 for..... 35c

Straight Spout. 6½ in. long. Ship. wt. 5 oz.
61 A 9859—Each..... 8c; 2 for..... 15c

Filter Funnels. For cars and tractors. Strong galvanized steel. Fine brass wire strainer is removable. apacity 10 quarts.
61 A 9856—Ship. wt. 3 lbs..... 79c

Cutter Pour Spouts for Sealed Oil Cans. Won't fall out of can. With gasket to prevent leakage.
61 A 9863—Ship. wt. 4 oz..... 14c

Handy Faucets for Barrels. Self-closing type. Brass castings with valve that is unaffected by alcohol, erosene, gasoline, etc. Can be padlocked. Wt. 1 lb.
61 A 7478—Fits ¾ in. Pipe-thread (1-in. opening)..72c

Legal Oil Dispensing Measures. Tin plated steel legal for dispensing oil in most states. 5½-in. flexible pout on 1-qt. size, 8-in. spout on 2 and 4 qt. sizes.
61 A 9650—1 Qt. Ship. wt. 1 lb..... 39c
61 A 9668—2 Qt. Ship. wt. 1 lb. 4 oz..... 47c
61 A 9669—4 Qt. Ship. wt. 2 lbs..... 63c

Alemite Grease Gun Set $29.50 Cash

- Light-Weight Aluminum.
- Attaches to Air Line.
- Four 10-oz. Interchangeable Magazines for All Lubricants.

Set includes portable carrier—container rack (holds all parts when not in use), gun, magazine container, 4 magazines, adapters for push type, pin type, and hydraulic fittings, adapter for plug holes, and a right angle hydraulic adapter for bearings *hard to reach.*
561 A 1448—Cash, Complete. *Postpaid* $29.50
61 A 1457—Gun Only, with 1 magazine and adapters for push type and Hydraulic fittings. No rack. *Postpaid.* Cash Price..... $26.00
61 A 1463—Female Snap-Coupler for quickly attaching or detaching gun. *Postpaid*..... 75c

Easy Action Barrel Pump

For gasoline, oil, alcohol, kerosene, etc. Fits any 15, 30, or 55-gal. barrel. Telescoping suction tube included can be adjusted to pump entire contents from the drum. Suction valve has cork face—delivers full pumping capacity. Threaded for ¾ in. connection.
461 A 9887—Wt. 9 lbs.... $2.95



"Uniform Speed" Governor $4.95 And Up

Needed to control a Power Unit. Automatically increases and decreases the amount of gas fed to the motor, maintaining a uniform pulley speed whether the load is heavy or light. Cuts gas consumption as much as 50%.

Variable speed adjustment allows full control of operating speed. Set it for speed you need, and it stays there. Operates on Flyball Principle—centrifugal force opens and closes throttle. Belt-driven—for most pulleys. Easily installed without special tools. With instructions and fittings. Ship. wt. 6 lbs. 8 oz.

For Ford and Chev.

61 A 826—Chev. 4 1926-28. $4.95
61 A 935—Chev. 6 1929-38 4.95
61 A 933—Ford T 1915-25. 5.85
61 A 934—Ford T 1926-27. 5.85
61 A 829—Ford A-AA 1928-31..... 4.95
61 A 896—Ford V-8 1932-36 6.45

Make a Power Unit from an Old Ford or Chevrolet

With an old motor and one of Wards Pulleys you can build a Power Plant to run washing machines, small cylinder shellers, feed grinders or other light running machines. Pulley bolts on back of transmission gives high, medium, or low speeds by using regular gear shift lever and transmission from old motor.

Choice of Babbitt Bearing type or Roller Bearing type. Wts. 6-in. 27 lbs.; 8-in. 30 lbs.; 10-in. 33 lbs.; 12-in. 45 lbs.

Art. No. marked M 261 shipped from Factory near Des Moines, Iowa in 5 extra days; all others from Stock.

$5.25 And Up

Pulley Diam.	Roller Bearings Article No.	Price	Babbitt Bearings Article No.	Price
Use with 1925-28 Chevrolet 4 Motors				
6 in.	*461 A 827	$6.85	†461 A 817	$5.25
8 in.	*461 A 835	7.45	†461 A 818	5.85
10 in.	*461 A 836	7.95	†461 A 824	6.25
12 in.	*M 261 A 1090	8.95	†M 261 A 1093	6.90
Use with Model T Ford Motors				
6 in.	*461 A 823	$6.85	*461 A 837	$5.25
8 in.	*461 A 831	7.45	*461 A 838	5.85
10 in.	*461 A 832	7.95	*461 A 839	6.25
12 in.	*M 261 A 1091	8.95	*M 261 A 1094	6.90
Use with 1928-31 Model A Ford Motors				
6 in.	†461 A 830	$6.85	†461 A 840	$5.25
8 in.	†461 A 833	7.45	†461 A 841	5.85
10 in.	†461 A 834	7.95	†461 A 819	6.25
12 in.	†M 261 A 1092	8.95	†M 261 A 1095	6.90

Listings marked (*) have square shaft.
Listings marked (†) have splined shaft.

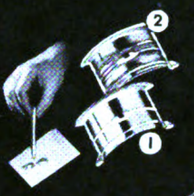
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QUICK-CHANGE OIL FILTERS

SAVE MOTOR WEAR—SAVE ON OIL

MAKE THIS TEST YOURSELF

Put a drop of used oil from your car on a clean blotter. Note the dirty, gritty spot. Install a new Ward "Quick-Change" Filter. Drive 100 to 200 miles and test your oil again. Note the difference.



CLEAN OIL SAVES REPAIRS

These pictures show the difference in wear on vital parts, in motors protected by ① oil filters and ② those that are not. Put on an Oil Filter now—keep your oil clean—save money.





"Quick Change" Oil Filter

Easy-open top makes cartridge easy to remove and change. Finest quality filter material is not affected by usual crankcase acids or impurities. Keeps motor oil clean—saves oil and repair bills.

$1.95 and up

Automatically and continuously strains, filters and clarifies the oil as the engine is running. Removes dirt, carbon, metal chips, foreign matter and harmful acids from oil stream. Saves you gasoline, makes oil last many times longer. You don't change cartridge until oil begins to show dark on gauge stick. Cartridge, tubing, fittings, instructions included with filter. Easy to install.

For Plymouth, Dodge, DeSoto, Chrysler

61 A 1470—Replaces Throw-away vertically mounted Purolator E½ and EA½ used as original equipment on 1933–41 models. Use present fittings, tubings, mounting bracket. Shipping weight 4 lbs. **$1.95**

For Most Other Cars Not Originally Filter Equipped

61 A 1472—Fits cars, trucks with crankcase capacity up to 8 qts. State Make Year Model and Serial No. Shipping weight 5 lbs. **$3.69**

61 A 1471—Extra Cartridge for Orange Filter 61—1470, 61—1472. 3½ in. by 4⅜ in. high. Wt. 14 oz. **59c**

61 A 1465—Extra Cartridge for Red Filter 61—1466 3½ in. wide, 4½ in. high. Ship. wt. 14 oz. **59c**

For Most Trucks, Busses, Tractors

61 A 1474—For most motors with Crankcase capacity over 8 qts., not filter equipped. State Make Year Model Serial No. Ship. wt. 7 lbs. 4 oz. **$4.89**

61 A 1475—Extra Cartridge for Orange Filter 61 A 1474 3½ in. wide, 7⅜ in. high. Ship. wt. 1 lb. 6 oz. **73c**

61 A 1468—Extra Cartridge, for Red Filter 61—1467 3½ in. wide, 7½ in. high. Wt. 1 lb. 2 oz. **73c**



Wards Supreme Filter

New Built-in magnet catches metal chips. Inner spring stops channeling—maintains full filtering action throughout cartridge life. Filter element made of special acid-resistant felt and selected cotton.

$2.39 and up

Gives you best motor protection. New built-in magnetic separator snares all damaging iron and steel particles. Compression spring keeps filter material from channeling—forces oil over greater filter area—makes it cleaner for longer engine life. Quick-change type—complete with cartridge. Tubing, fittings, brackets and instructions, (except 61 A 1400).

For Plymouth, Dodge, DeSoto, Chrysler

61 A 1400—Replaces factory equipped vertically mounted Purolator E½ and EA½ on 1932–41 models. Also Plymouth 1931. Use present fittings, tubings and mounting brackets. Ship. wt. 4 lbs. **$2.39**

For Most Other Cars Not Originally Filter Equipped

61 A 1401—**For Ford, V-8, 1932–41, Lincoln Zephyr, 1937–41, Mercury, 1939–41.** Wt. 7 lbs. ... **$4.49**

61 A 1402—**For Chevrolet** Pass. Cars, and Trucks 1934–41. Shipping weight 7 lbs. **$4.49**

61 A 1403—**For Pontiac, Olds.**, 1934–41. Also Plymouth Road King, Dodge Std. Wt. 8 lbs. **$4.49**

61 A 1404—For all other 1930–41 cars and light trucks. Except Buick cars. Ship. wt. 8 lbs. **$4.69**

61 A 1405—Replacement cartridge for all above numbers. Shipping weight 1 lb. 8 oz. **60c**

For Most Trucks, Tractors, Industrial Engines

61 A 1406—For motors with crank case capacity of 8 quarts or more. Shipping wt. 10 lbs. .. **$5.95**

61 A 1407—Replacement cartridge for 61 A 1406 Shipping weight 2 pounds **98c**



Famous FRAM Quick-Change Oil Filter

Scientific tests show the Fram Removes 81% of the mechanical impurities from oil; 86% of the sludge. Fram-cleaned oil cuts motor wear by two-thirds. Every Fram Filter is complete with decalcomania indicator for your oil dip stick. It tells at a glance whether oil is clear—or whether cartridge needs changing. With fittings, tubing, mounting brackets and instructions, except where stated.

61 A 1408—For Chevrolet 1937–41. *Postpaid* **$7.50**

61 A 1409—For all Ford V-8—85, V-8–95 cars, trucks; all Mercurys. *Postpaid* ... **7.50**

61 A 1410—For 1935–41 Plymouth, Dodge and 1937–41 DeSoto, Chrysler cars. Use present fittings, mountings, and tubing. Standard F-4 Fram Filter. Height 8 in. *Postpaid* . **$6.00**

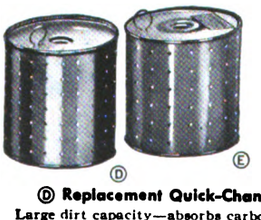
61 A 1411—**Extra Fram C-4 Cartridge** for above filters. *Postpaid* **1.25**



$1.25 Wards Supreme

73c Wards Standard

$2.00 Genuine A.C.



WARDS **59c** Ea. and up

GENUINE FRAM **$1.00** Ea. and up

Replacement Cartridge Style Oil Filters

Ⓐ **15,000-Mile Size—Wards Supreme Quality.** Equals nationally known brands that sell at much higher prices. Replaces Oil Filter Cartridges on most 1930–41 cars and trucks originally equipped with oil filters. See *"How to Order" below.* Ship. wt. 2 lbs.

61 A 8812—Each. Ship. wt. 2 lbs. **73c**

Ⓑ **10,000-Mile Size—Wards Standard Quality.** Gives full motor protection. Fits most 1930–41 cars originally equipped with filters. *See "How to Order" below.*

61 A 8812—Each. Ship. wt. 2 lbs. **73c**

Ⓒ **8,000-Mile Size—Famous A. C.** Replacement for most 1930–41 cars, trucks equipped with oil filters.

61 A 8801—*See "How to Order." Postpaid.* Ea. **$2.00**

HOW TO ORDER OIL FILTERS—State Make, Year, Model, Serial Number of car or truck. Don't guess—see state license card; also Type No. of old Filter.

Order An Extra Cartridge with Your Filter

Include an extra cartridge in your order when buying an oil filter. It will come in handy when it's time to change.

950 WARDS ▲

Ⓓ Replacement Quick-Change Cartridges

Large dirt capacity—absorbs carbon, foreign matter, metal particles and harmful acids in oil stream that cause excessive engine wear. Complete with gaskets. Shipping weight 1 pound 6 ounces.

61 A 1488—Replaces Fram Cartridge C-3. Used in Fram Filters F-3, F-315, F-325, F-326, F-327 ..... **59c**

61 A 1476—Replaces Fram Cartridge C-4, used in Fram Filter F-4, F-413, F-415, F-425, F-485 ..... **59c**

61 A 1491—Replaces Fram Cartridge C-30. Used in Fram Filters F-30, F-35, F-35T **79c**

61 A 1477—Replaces AC Cartridge L-11. Used in A.C. Filter L-1 ..... **59c**

61 A 1489—Replaces AC Cartridge S-11, used in AC filter S-1 ..... **73c**

61 A 1478—Replaces Purolator cartridge N-15. Used in filter NE-1517, N-1503 and N-15 Series **59c**

61 A 1490—Replaces Purolator cartridge N-16. Used in Purolator Filter N-16, N-1603, and N-16 series **60c**

Ⓔ Genuine Fram Quick Change Type Cartridges

61 A 1411—Fram C-4 cartridge. Fits Fram F-4, F-425, F-485 F-415 and F-413 Filters. *Postpaid* **$1.25**

61 A 1412—Fram C-3 Cartridge. Fits Fram F-3, F-315, F-325, F-326, F-327 filters. *Postpaid.* . **$1.00**

61 A 1413—Fram C-30 Cartridge. Fits Fram F-30, F-35, F-35T filters. *Postpaid* **$1.75**

WE PAY FREIGH

. Buy in Larger Quantitie

WHICH OIL SHALL I BUY?

There are three main grades of oil made and sold—(1) asphaltic base Coastal oil, (2) paraffin base Mid-Continent Oil and (3) paraffin base Pennsylvania Oil. Wards offer all three: Commander Coastal; Sinclair Mid-Continent (Opaline); Wards Supreme Pennsylvania and Sinclair Pennsylvania.

Mid-Continent Oils

The Mid-Continent Oils sold by Wards are refined from 100% paraffin base crude oil produced in the region centering in Oklahoma. Scientific refining and dewaxing methods assure wax-free oils that maintain satisfactory lubrication at all temperatures. Flows freely in cold weather.

Pennsylvania Oils

The Pennsylvania Oils sold by Wards are refined from 100% Bradford-Allegheny crude, the oldest and highest priced paraffin base crude in the world, the finest obtainable. Wards recommend these high quality oils for maximum lubrication under high speed and extreme heat due to their greater resistance to thinning. Their tough film of lubrication stands up longer and requires the least extra oil between changes. Pennsylvania Oils are the best, and in the long run, the most economical buy. They are usually sold for 30c to 35c per quart in service stations.

Coastal Oil

Coastal Oil has an asphaltic base. It gives good lubrication, but does not resist thinning as well as Mid-Continent or Pennsylvania Oils.

How to Choose the Right SAE Grade—All Motor Oil on these 2 pages is offered in different SAE grades ranging from light to super heavy. The light grades such as SAE 10-10W and SAE 20-20W are used in winter for easier starting and best cold weather lubrication; also recommended for new cars until broken in. For extremely high motor temperatures and high speeds, Wards recommend the heavier weights. For motors which have worn bearings and pistons, it is more economical and safer to use a heavier SAE grade than customary. Always follow the recommendation of the car manufacturer.





Wards Commander Oil

- **Equals Service Station Oils Usually Sold for 20c Per Quart.**
- **Made from Finest Asphaltic Base Crudes.**
- **A Full Bodied Lubricant—Filtered To Resist Carbonization.**

Wards Commander Motor Oil is a dependable lubricant of good quality. It is made from highest grade coastal crudes, and refined by the newest processing methods. If you need lubrication at lowest cost, Wards Commander Oil is the perfect choice. Its wax-free film stands up well under all demands.

Before ordering, read information on "Which Oil Shall I Buy," above. **Be sure to state S.A.E. grade desired.** Commander Oil supplied in S.A.E. 20–20W, 30, 40, and 50. *Freight Prepaid on orders of 5 gal. or more.* Prices include Federal Tax of 4½c a gallon.

461 A 7349 — 2-Gallon Can (*Not Prepaid*). Shipping weight 19 lbs. **74c**

461 A 7349—Three 2-Gal. Cans **$2.69**

261 A 7344—15-Gal. Bbl. (with Faucet) . **5.98**

261 A 7346—30-Gal. Bbl. (with Faucet) . **11.40**

261 A 7345—55-Gal. Bbl. (with Faucet) . **19.80**

Cans **shipped from Stock**—Barrels from Philadelphia, Pa. Allow 4 extra days.

Sinclair Opaline Oil

- **Highest Quality Mid-Continent Oil.**
- **Made From Paraffin Base Crudes.**
- **Free Flowing Because Dewaxed, Dejelli**
- **Comes To You in Refinery-Sealed Ca**

Nationally advertised Sinclair Opaline O used by millions of motorists. *Opaline is ma* from carefully selected 100% finest M Continent paraffin base crude oil.

Vacuum distilled and triple filtered modern Sinclair refineries, Opaline offers t high film strength necessary to prevent fricti between close fitting parts of new motors. is dewaxed and dejellied by a special refini process which removes non-lubricating su stances, and helps to make it long lasting hard summer driving, as well as free-flow for quick starting at low winter temperature It is also free from excessive carbon deposi

Available in 1-qt. and 5-qt. cans. Pric Include Federal Tax. Wards pay transport tion both on 1-qt. and 5-qt. sizes of Opalin Furnished in SAE 10-10W; 20–20W; 30; 4 50; **State SAE. Grade Desired.** See above.

461 A 7359—1-Qt. Can. *Prepaid* 25

24-One Qt. Cans. *Freight Prepaid* $5.2

461 A 7360—5-Qt. Can. *Prepaid* 1.1

4-Five Qt. Cans. *Freight Prepaid* 4.2

Wards Special Lubricants



Light Machine Oil. High grade light bodied Oil. Flows at 40° below zero. Correct weight lubricant for household appliances, cream separators, sewing machines, motors, typewriters, guns, windmill gears, etc. Federal Tax included.

61 A 7486 — ½-gal. Ship. wt. 5 lbs. **32c**

61 A 7452—1-qt. Wt. 3 lbs. 2 oz. **18c**

61 A 9531—4-oz. Handy Spout Can. Ship. wt. 9 oz. **9c**

Wards New Engine Tone—Increases lubricating value of motor oil. Dissolves carbon.

(B) 61 A 7385—1 Pint. Ship. wt. 1 lb. 12 oz. **29c**

(A) 61 A 7383—1 Quart. Ship. wt. 2 lbs. 8 oz. **49c**

Ⓒ **Graphite Penetrating Oil for Springs**—Sinks in where others won't. Loosens bolts. **21c**

61 A 9825—Pint. No Gun. Wt. 1 lb. 12 oz. .

Ⓕ **61 A 9821**—Gun for above. Wt. 12 oz. **53c**

Ⓓ **Wards Colloidal Graphite Oil**—Reduces motor wear, carbon—gives better gas mileage. Instructions, cup. Wt. 1 lb. 4 oz.

61 A 7380—For Crankcase. Pint size **27c**

61 A 7381—For Gas Tank. Pint size **27c**

Ⓔ **Famous Pyroil**—Lubricates entire top of motor. Breaks up hard carbon. Removes gum and sludge. Prevents corrosion. Wt. 1 lb. 5 oz.

61 A 7301—Pint for Crankcase **79c**

61 A 7302—Pint for Gasoline Tank **79c**

Crankcase Ventilator. Replaces oil filler cap. Prevents accumulation of smoke fumes. Shipping weight 1 pound, 4 oz.

61 A 3363—For Ford A-AA, 1928 to 31; V8, 60 H.P. 1937–40; Dodge 1932–41; Plymouth 1937–41 ..... 47c

61 A 3366—For Ford V8, 1932–41; (except 60 H.P.), 1939–41 Mercury 45c

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ON 5 GALLONS OR MORE

ave on the Price–Save Freight Charges

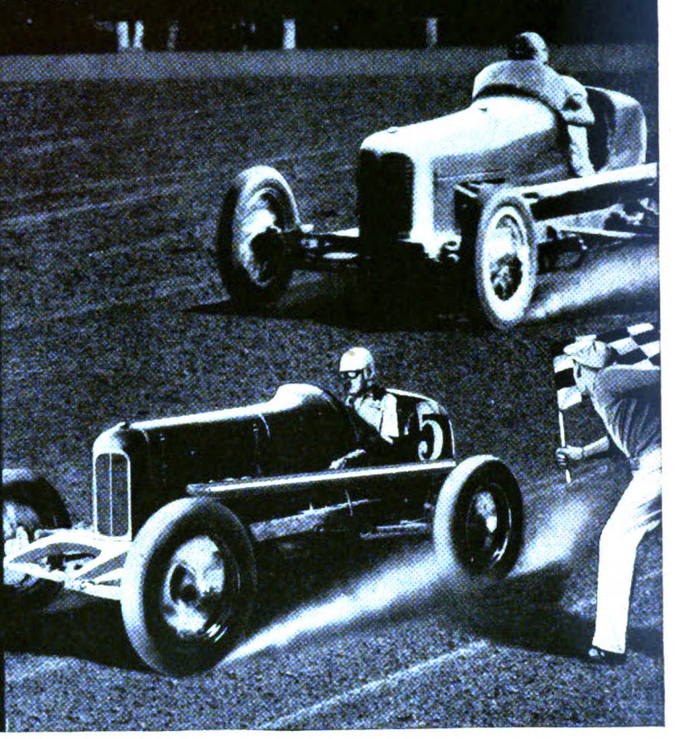




Jimmie Wilburn

"I used Wards Supreme Quality Oil in every race last year. Did not replace pistons or bearings throughout entire season."

Writes JIMMIE WILBURN
1940 Champion CSRA Circuit



100% Pure Pennsylvania Oil

Roaring along at 100 m.p.h., Jimmie Wilburn, Gus Schrader, Joie Chitwood, Emory Collins and dozens more of America's leading racers burn up America's dirt tracks all summer long. Without perfect lubrication they'd burn up their engines, too. But with Wards Supreme Oil in the crankcase, their racing cars go through whole seasons without major repairs. Wards Supreme has the full body, the resistance to oxidation, the stamina that it takes to stand up under gruelling race track service. That's why these leading drivers choose Wards Supreme to protect their $10,000 racing cars.

It's logical that your engine needs the same protection that race cars must have. In many ways, your motor demands even more of an oil—in zero weather starting, for example. Only a quick-flowing oil like Wards Supreme gives full winter protection, prevents metal-to-metal contact, which is one of motors' deadliest enemies.

WHY WARDS PENNSYLVANIA OIL EQUALS ANY YOU CAN BUY

Wards Supreme Oil costs less than half the price of 35c a quart oils. But it's every bit as good and here's the reason: Wards Supreme Oil is refined from Bradford-Allegheny Crude Oil—world famous for quality. It's *Triple-Filtered* to reduce gumming and to eliminate valve sticking. It's *Double-Dewaxed* to flow instantly at zero—to give you fast starts and instant protection.

Wards Supreme meets the specifications and carries the seal of the Pennsylvania Grade Crude Oil Association—a symbol of quality preferred by 80% of American Motorists. Next time you change oil, save 50% by filling with Wards Supreme—the oil that's unsurpassed for motor protection. Don't forget, either, that *Wards Pay the Freight on 5 Gallons or More.*

it must be good



The State Laboratories of North Dakota test all oil sold in the state. See how favorably Wards Supreme PennsylvaniaOil (SAE 30) was found to compare with nationally advertised brands costing 30c—35c a quart.

Tests on Five Oils	Pour Point The lower the better	Oxidation Number The lower the better	Viscosity Index The higher the better	Carbon Residue The lower the better
Wards	0-F	0 0	102	.47
Oil "A"	5-F	2 9	103	.44
Oil "B"	10-F	0 0	107	.67
Oil "C"	5-F	6 0	81	.39
Oil "D"	5-F	3 0	99	.59



WARDS SUPREME OIL IN EIGHT SIZES



1-Qt. Can	5-Qt. Can	2-Gal. Can	5-Gal. Pour Pail	5-Gal. Handy Can	15-Gal. Bbl.	30-Gal. Bbl.	55-Gal. Bbl.
20c	85c	$1.32	$3.69	$3.95	$10.50	$19.50	$34.65

Handy opener is included with refinery-sealed 1-quart can. 1-quart, 5-quart, 2-gallon, and 5-gallon quantities shipped from stock. Barrels are shipped from refinery at Wellsville, N. Y. or Philadelphia, Pa., usually in 4 extra days. Faucet is attached to inside of large plug.

Prices include Federal Tax of 4½c per gallon. Be Sure to state SAE Grade Wanted—10–10W, 20–20W, 30, 40, 50, 60. SAE 50 and 60 not sold in 1-qt. sealed cans.

FREIGHT PREPAID (5 Gal. or More)	Ship. Wt.	Article No.	Price
1-Quart Can. (Not Sold in 50 or 60 SAE Grades)	2 lbs. 8 oz.	61 A 7355	20c
24 One-Quart Cans (*Freight Prepaid*)	56 lbs.	461 A 7356	$5.19
5-Quart Can	10 lbs.	461 A 7365	85c
Four 5-Quart Cans (*Freight Prepaid*)	44 lbs.	461 A 7357	$3.79
2-Gallon Can	18 lbs.	461 A 7354	1.32
Three 2-Gallon Cans (*Freight Prepaid*)	52 lbs.	461 A 7358	4.39
5-Gallon Pour Pail (*Freight Prepaid*)	43 lbs.	461 A 7353	3.69
5-Gal. Handy Can (*Freight Prepaid*)	43 lbs.	461 A 7363	3.95
15-Gal. Barrel with faucet (*Freight Prepaid*)	127 lbs.	261 A 7352	10.50
30-Gal. Barrel with faucet (*Freight Prepaid*)	255 lbs.	261 A 7351	19.50
55-Gal. Barrel with faucet (*Freight Prepaid*)	450 lbs.	261 A 7350	34.65

Genuine Sinclair Pennsylvania Oil

The same Oil that American Airlines planes have used exclusively in flying more than 100 million miles during the past seven years. It's refined from 100% Bradford-Allegheny Pennsylvania Grade Crude, the world's oldest and costliest crude oil.

Sinclair Pennsylvania is stripped of non-lubricating wax and petroleum by a special extra refining process. It stands up and lasts longer in hard summer driving. It flows freely, gives quick starting and instant lubricating protection in low winter temperatures. In refinery-sealed non-refillable cans. Wards Pay Transportation. Federal tax of 4½c per gallon included. State SAE grade desired: 10–10W, 20–20W, 30, 40, 50. See "*Which Oil Shall I Buy*".

461 A 7361—1-qt. Can. *Prepaid*..... 30c
24—One qt. cans. *Freight Prepaid*..... $6.48
461 A 7362—5-qt. Can. *Prepaid*..... 1.39
4—Five qt. cans. *Freight Prepaid*..... 4.98

Buy Oil by the Barrel and Save! Pay by the Month

By purchasing in larger quantities you get your oil for less per quart. Wards Time Payment plan makes it possible to buy a 55 gallon barrel of Wards Supreme Oil now, and pay as you use it.

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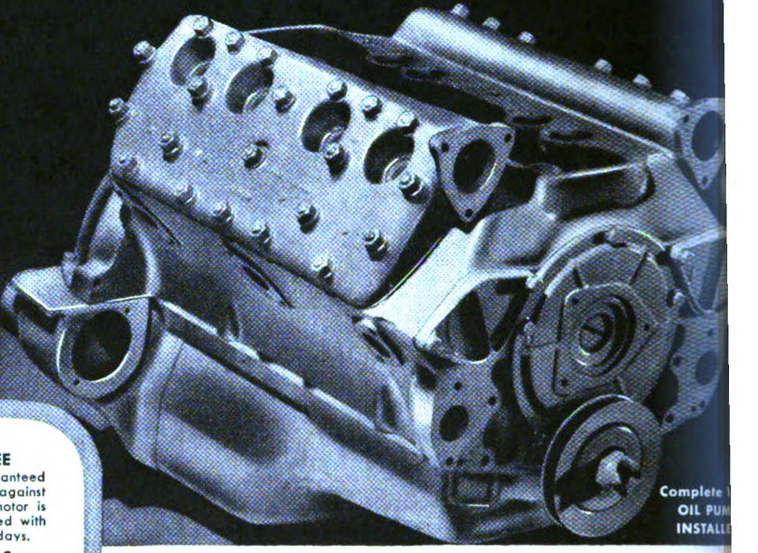
THE TRUTH ABOUT REBUILT MOTORS

When you buy a rebuilt motor, make sure it is truly "rebuilt" and not just "repaired." Many so-called rebuilt motors sold at less than Wards prices are assembled by untrained labor without proper fitting of parts. These so-called rebuilt motors frequently contain old pistons, used without reboring the cylinders, old piston pins, valves, bearings, and crankshafts (not reground); in fact, cheap rebuilt motors are often simply overhauled motors. Wards Motors are rebuilt from the ground up. You get precision rebuilding and testing done on costly machines. You get latest engineering improvements, such as new tin-coated rings, new 1941 type aluminum pistons, precision rebored cylinders, and all the other new parts completely described below... AND every Ward Rebuilt Motor is fully guaranteed.

Important Features You Should Check Before Buying Any Rebuilt Motor	Wards Rebuilt Motors	Original Car-Makers Rebuilt Motors	Usual Low Priced Rebuilt Motors
PISTONS: NEW 4-Ring Aluminum Type with 1 Oil Ring Below Pin	YES	3-Ring Type	3-Ring Type or Used Pistons
RINGS: NEW Tin-Coated Type—1 Segment Ring on Each Piston	YES	YES	Plain Cast Iron —Not Coated
PINS: All NEW—Hardened and Ground—Correctly Fitted in Piston	YES	YES	NO—Used Pins Usually Furnished
CYLINDERS: All Rebored and Double Honed to Mirror Finish	YES	YES	NO—Usually Not Rebored
CRANKSHAFT: Aligned—Reground On All Bearing Surfaces	YES	NO	NO—Usually Not Reground
BEARINGS: All NEW—Correctly Fitted. Main Bearings Line-Bored.	YES	YES	NO—Used Parts Usually Furnished
VALVES: All NEW—Silichrome Exhaust, Chrome Nickel Intake	YES	NO—Usually Refaced	NO—Old Ones—Refaced
VALVE GUIDES: All NEW—Fitted to Correct Tolerance	YES	YES	NO—Used Parts Usually Furnished
TIMING GEARS: NEW Camshaft Gear—Fabric-Bakelite Type	YES	YES	NO—Used Parts Usually Furnished

Trade in you

PAY AS YOU RIDE-BUY ON TIME F



Complete
OIL PUM
INSTALL



NOW!

VENTILATED SEGMENT EXPANDER RINGS in Every Rebuilt Motor

Give 50% more mileage before new rings are required. Stop blow-by—give more power, better gas and oil economy, extra lubrication for rings and cylinders.

When Installing A Rebuilt Motor Block, Always Check These Units—To Insure Best Performance



CARBURETOR—A faulty carburetor will dilute lubricant, causing rapid piston, Piston Ring and Cylinder wear.

OIL PUMP—A faulty Oil Pump will cause inadequate lubrication—rapid wear on bearings, pistons and piston rings.

DISTRIBUTOR—A faulty distributor will cause rapid wear and failure of bearings, conn. rods, also poor starting.

WARDS REBUILT MOTOR GUARANTEE

Rebuilt Motors installed in passengers cars are Guaranteed for 90 days or 4,000 miles (whichever occurs first) against any defect in material and workmanship, when motor is installed and run-in according to instructions included with each motor. Truck installations guaranteed for 30 days.

HOW TO ORDER REBUILT MOTORS:

Two Ways To Order: 1.—Send full Cash Price, when old motor is returned we send you a check for trade-in allowance. 2.—Send Down Payment. We set up your account on basis of full price. When old motor is inspected, we refigure your account, give you credit for value of old motor, and adjust your time payment charges on the basis of exchange price only.

Send old Motor to Wards Motor Rebuilders, 1306 Memorial Ave. Williamsport, Pa., except Dodge, Plymouth, and complete Chevrolets, which should be shipped to 2920 Benton St., St. Louis, Mo. Transportation Prepaid. Send all orders to Mail Order House. $3 of Refund ($6 on Complete Motors) is for crate.

Wards Send You All Necessary Papers for Proper Registration of Motor. Be sure order is made out in name of person who is to apply for registration. *Requirements for Full Allowance of Old Motor:* Old Motor must be the same year and model as rebuilt motor ordered. It must be received in good condition, suitable for rebuilding. Blocks must not be cracked or parts seriously damaged; cylinder walls must not measure larger than .050 oversize. Motors unsuitable for rebuilding due to defects, defaced or removed motor numbers, are accepted only for actual junk or recovery value. When repairs like valve seat inserts, cylinder sleeves, or other operations are necessary to put block in condition for rebuilding, a reasonable charge will be deducted for such repairs.

HEAVY DUTY REBUILT FORD V-8 MOTOR $70

ALL NEW Parts and Rebuilding Operations Described on Facing Page Plus New Cylinder Heads and Oil Pan Attached

With Old Mo
$7 A Month

- **NEW Heavy Duty Cadmium Lined Bearings That Withstand Far More Wear Than Regular Type Bearings—Stand Up Longer Under Action of Oil Acids That Cause Rapid Wear on Ordinary Bear**

We recommend this heavy duty V-8 completely rebuilt motor for heavy duty service or for high speed service in passenger cars. Buying your motor with New H and Oil Pan already installed also gives you the assurance of properly fitted heads— inates the danger of warping or compression leakage. Ready to install—no mechanical justments necessary. Why not take advantage of Wards Time Payment Plan and this Heavy Duty Block Assembly now. The extra service you'll receive will more compensate for the slight increase in monthly payments. Return old block complete cylinder heads and oil pan. **Shipped promptly from Factory stock** in Williamsport. Allow 4 days extra. Ship. wt., 425 lbs. Read "How to Order" and Wards Rebuilt M Guarantee at left.

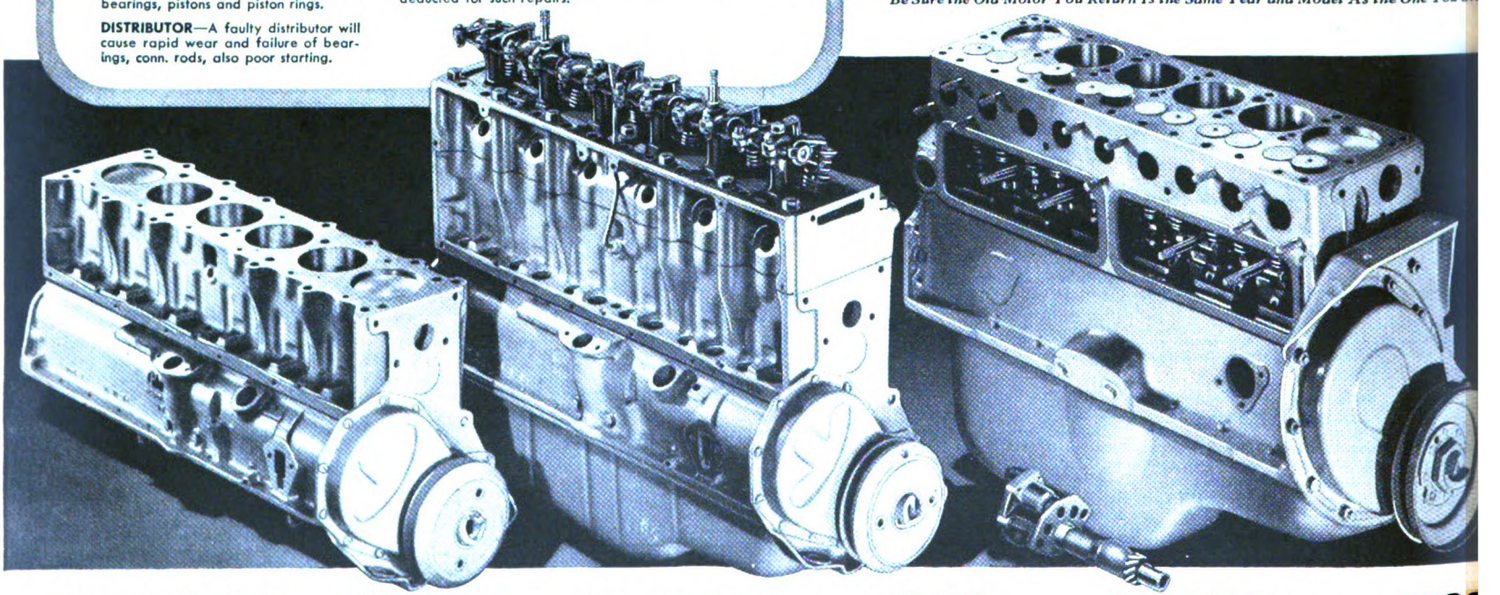
261 A 2888—For Ford V-8, 1932–36, 85 H.P. ($40 Refund Coupon). Cash Price...$11
261 A 2889—For Ford V-8, 1937–38, 85 H.P. ($50 Refund Coupon). Cash Price.. 12

NEW Block For Ford V-8 With Heads and Oil Pan Attached*

Same motor rebuilding as above except with completely NEW standard size block—no bored. New Cylinder Heads and Oil Pan already installed by expert mechanics to as compression tight fit and proper oil seal. See Shipping Information Above.

261 A 2897—For Ford V-8, 1935–36, 85 H.P. ($40 Refund Coupon). Cash Price..$12
261 A 2898—For Ford V-8, 1937–38, 85 H.P. ($50 Refund Coupon). Cash Price.. 13

Be Sure the Old Motor You Return Is the Same Year and Model As the One You Or



REBUILT CHEVROLET BLOCK $43.95 And Up

37 New Parts—16 Renewed Parts—80 Precision Rebuilding Operations

With Old Block
$5 A Month

- **NEW 3-Ring Full-Skirt Aluminum Pistons.**
- **NEW Tin-Coated Piston Rings—Ventilated Segment Expander Ring on Each Piston for Better Oil Control.**
- **NEW Piston Pins and Conn. Rod Bushings.**
- **NEW Fiber Cam Gear, Selected Crankshaft Gear.**
- **NEW Bronze Back Type Main Bearings—Line-Bored.**
- **Realigned and Rebabbitted Connecting Rods.**
- **Crankshafts Aligned and Reground on all Connecting Rod and Main Bearing Surfaces.**
- **Cylinders Rebored, Double-Honed, Polished.**

New 1941 type reinforced pistons—they're ALUMINUM, like pistons in high priced cars of 1941 (original equipment was cast iron)! Use your present head, manifolds, valve assembly, etc. **Shipped from Factory** in Williamsport, Pa., except 261 A 2523-24, 2628-29, which are shipped from St. Louis, Mo. Allow 4 days extra. Read "How to Order" above. Av. wt. 300 lbs.

261 A 2511—For 1929–30 Chev. ($10 Refund Coupon) Cash..$53.95
261 A 2517—For 1931-Chev. ($13 Refund Coupon). Cash..... 58.25
261 A 2518—For 1932 Chev. ($23 Refund Coupon). Cash..... 70.75
261 A 2519—For 1933 Master Chev. ($23 Refund). Cash..... 72.95
261 A 2520—For 1934 Master Chev. ($23 Refund). Cash..... 74.75
261 A 2521—1935 Master or Std. ($23 Refund). State Model. 77.95
261 A 2522—1936 Master or Std. Chev ($33 Refund). State Model 90.25
261 A 2523—1937 All ($33 Refund). Cash Price..... 96.75
261 A 2524—1938 All ($33 Refund). 96.95
261 A 2628—1939 All ($33 Refund). 98.75
261 A 2629—1940 All ($33 Refund). 98.95

BLOCK FOR CHEVROLET WITH CYLINDER HEAD ASSEMBLY $61.95 And Up

Same Block as at Left with All the New and Rebuilding Features, plus Rebuilt Cylinder Head Assembly, Oil Pan and Oil Pump

With Old Motor
$6 A Month

- **NEW Silichrome Exhaust and Chrome Nickel Intake Valves.**
- **NEW Valve Guides and NEW Springs Throughout.**
- **Selected Rocker Arms with NEW Shafts and Bushings.**

You'll be sure of like-new performance with this completely Rebuilt Chevrolet Block with the head assembly and oil pan already assembled. You're doubly sure of satisfaction because it's backed by Wards Regular 4,000-mile or 90-day Guarantee. Furnished as pictured. See Inside Back Cover. **Shipped from Factory stock** in St. Louis, Mo. Allow 4 Days Extra. Read "How to Order" above. Av. ship. wt. 385 lbs.

261 A 3070—For 1929–30 Chev. ($23.00 Refund Coupon). State year. Cash Price.....$84.95
261 A 3071—For 1931 Chev. ($26.00 Refund Coupon). Cash.. 88.75
261 A 3072—For 1932 Chev. ($36.00 Refund Coupon). Cash..102.25
261 A 3073—For 1933 Master ($36.00 Refund Coupon). Cash.103.75
261 A 3074—For 1934 Master ($36.00 Refund Coupon). Cash..105.95
261 A 3075—For 1935 Chev. ($36.00 Refund Coupon). Cash..106.25
261 A 3076—For 1936 Chev. ($36.00 Refund Coupon). Cash..107.75
261 A 3077—For 1937 Chev. ($46.00 Refund Coupon). Cash..126.95
261 A 3078—For 1938 Chev. ($46.00 Refund Coupon). Cash..127.25
261 A 2630—For 1939 Chev. ($46.00 Refund Coupon). Cash..127.75
261 A 2631—For 1940 Chev. ($46.00 Refund Coupon). Cash..128.95

REBUILT BLOCK FOR PLYMOUTH—DODGE $79

93 Completely New Parts—23 Renewed Parts—More Than 100 Precision Operations

With Old Bloc
$7 A Month

- **NEW 4-Ring, Full Skirt, Aluminum Pistons.**
- **NEW Tin-Coated Piston Rings with one Ventilated Segment pander Oil Ring on Each Piston for Best Oil Control.**
- **NEW Heat-Treated Piston Pins—Correctly Fitted.**
- **NEW Famous Ramsey Silent Timing Chain.**
- **NEW Main Bearings. NEW Connecting Rod Insert Bearing**
- **NEW Silichrome Heat-Resisting Exhaust Valves.**
- **NEW Chrome-Nickel Alloy Intake Valves.**
- **NEW Valve Guides and Tempered Valve Springs.**
- **Realigned, Rebabbitted Connecting Rods, Fully Tested.**
- **Crankshaft Aligned. Reground on All Bearing Surfaces.**
- **Rebored Cylinders—Double-Honed, Polished. Rebuilt Oil Pu**

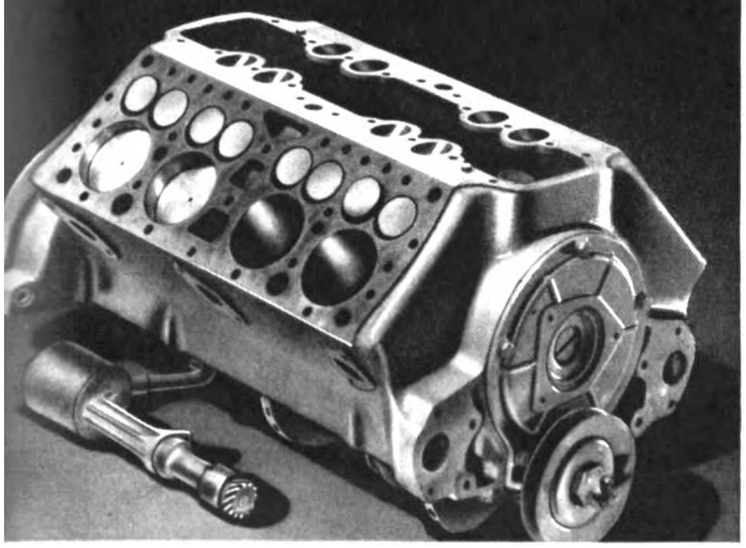
Equal in every detail to finest rebuilt motors made. Use your pre head, manifolds, ignition, carburetion, etc. Buy on Time. **Shipped f Stock at Factory** in St. Louis, Mo. Allow 4 days extra. Wt. 370 lbs. "How to Order" above. Dodge assemblies furnished less support and pulley. **State Make, Year, Model of car.**

261 A 3550—For 1933 Plymouth. ($33 Refund Coupon). Cash....
261 A 3551—For 1934 Plymouth. ($33 Refund Coupon). Cash....
261 A 3552—For 1935 Plymouth. ($33 Refund Coupon). Cash....
261 A 3553—For 1936 Plymouth. ($33 Refund Coupon). Cash....
261 A 3554—For 1937–39 Plymouth. ($33 Refund Coupon). Cash
261 A 3560—For 1934–39 Dodge Cars. ($38 Refund Coupon). Cash
261 A 3561—For 1934–36 Dodge ½ and 1½ Ton Trucks with 3½ Cylinder Bore. ($38 Refund Coupon). Cash Price.....

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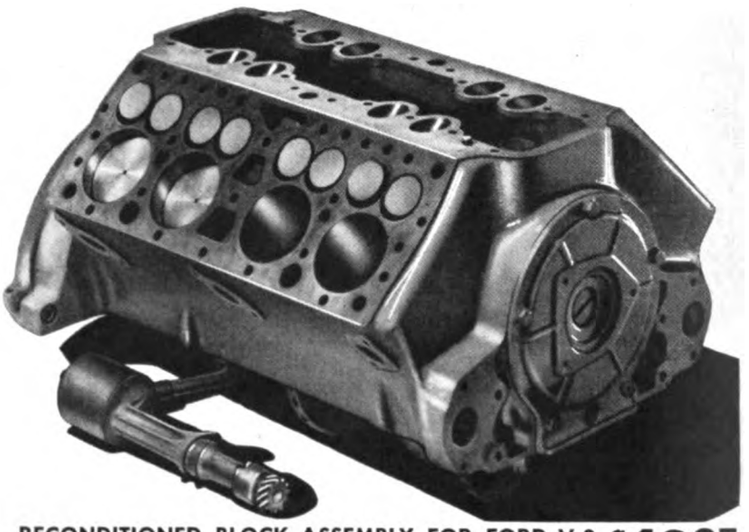
Old Motor

AS LITTLE AS $5 A MONTH



Wards Economy

RECONDITIONED BLOCK ASSEMBLY FOR V-8 FORDS



REBUILT BLOCK ASSEMBLY FOR FORD V-8

$57.75 Cash
With Old Motor
$6 A Month

ntirely New Parts—52 Factory Renewed Parts—164 Rebuilding Operations

W Improved 4-Ring Aluminum Pistons—
eet 1941 "Skirt-Ring" Type—Extra Oil
g Below Pin for Better Oil Control.
W Tin-Coated and Segment Expander Pis-
Ring—Assures Proper Break-in.
W Copper-Lead Alloy Connecting Rod and
W Crankshaft Main Bearings. Line Bored.
W Hardened, Lapped Piston Pins correctly
ed. NEW Bronze Connecting Rod Upper
rings.
W Silichrome Super Heat Resisting Exhaust,
W Chrome Nickel Intake Valves.
W Valve Guides and Swedish Steel Springs.
W Fiber Camshaft Gears and Selected Metal
amkshaft Gears.
cision Rebored Cylinder Walls—Double-
ned and Polished.
built Oil Pump Assembly.
cision Machined Valve Seats—Renewed
th Rods.
amkshaft Realigned and Reground on all
nnecting Rod and Main Bearing Surfaces.
Ward Rebuilt Motor you get much more than
al overhaul job—every moving part is replaced
a new part or is made like new. The motor you get carries Wards 90-day or 4,000-mile guarantee—your assurance of trouble-free service.

When you buy your V-8 Rebuilt Motor at Wards you also have the opportunity of taking advantage of the Convenient Time Payment Offer. This enables you to pay for your motor while you ride . . . and your savings in gasoline and oil will help you make the Monthly Payments. See Details on Inside Back Cover. **Shipped from Factory** in Williamsport, Pa. Allow 4 days extra. You pay freight from there or from Mail Order House, whichever is nearer. Ship. wt. 375 lbs. Before you order be sure to read "How To Order" on opposite page.

E261 A 2504—For Ford V-8, 1932. (With $25 Refund Coupon). Cash Price.....**$62.75**

E261 A 2542—For Ford V-8, 1933-34. (With $30 Refund Coupon). Cash Price.....**$67.89**

E261 A 2543—For Ford V-8, 1935-36. With Flat Head Pistons. (With $35 Refund Coupon). Cash Price **$93.95**

E261 A 2544—For Ford V-8, 1937, 85 H.P. With Dome Head Pistons. ($40 Refund). Cash Price.....**$98.95**

Be Sure the Motor You Return Is the Same Year and Model as the One You Are Ordering.

RECONDITIONED BLOCK ASSEMBLY FOR FORD V-8

$42.95 Cash
With Old Motor
$5 A Month

- Factory Reconditioned Blocks—Checked and Pressure Tested.
- NEW 3-Ring Pistons Like Original.
- NEW Hardened and Lapped Piston Pins Correctly Fitted.
- NEW Factory Duplicate Type Piston Rings—2 Regular Compression Rings and One Wide Slot Oil Ring on Each Piston.
- Completely Reconditioned Exhaust Valves—Checked for Approved Tolerances.
- NEW Intake Valves Throughout.
- Selected Valve Guides and Valve Springs.
- Carefully Selected Timing Gears (both Fiber and Steel).
- NEW Copper-Lead Alloy Connecting Rod Bearings—Selected Connecting Rods.
- Rebuilt Oil Pump—Checked for Perfect Operation—Fully Assembled.
- Reground Crankshaft—NEW Main Bearings.
- Precision Rebored Cylinder Walls—Double-Honed and Polished.

Wards Challenge to "cheap repaired motors." For the man who intends to drive his old car another year, or who doesn't drive his car hard, here's a **good** motor at a minimum price. It's built to give you the lowest cost possible for a satisfactory reconditioning job.

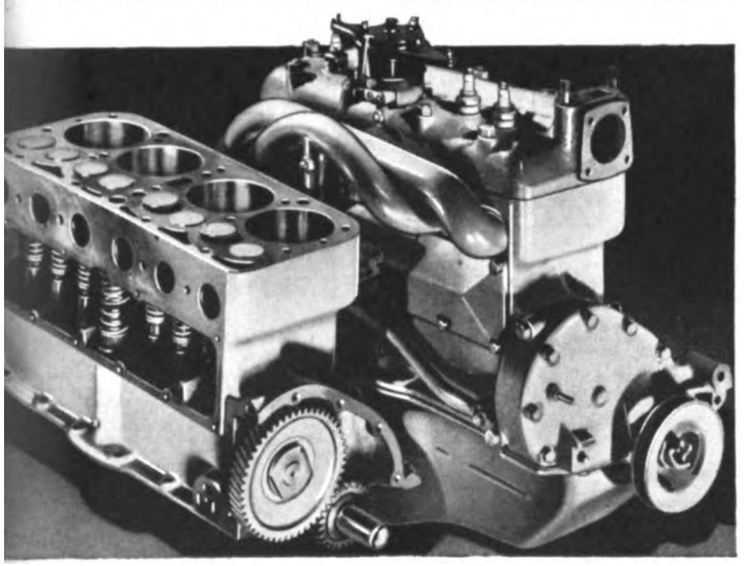
Shipped from Factory Stock in St. Louis, Mo. Allow 4 days extra. Ship. wt. 375 lbs. Read "How to Order" on opposite page.

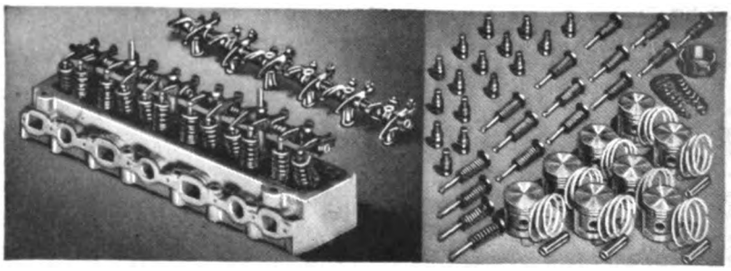
261 A 2505—For Ford 1932, V-8, 85 H.P. (with $25 Refund Coupon). Cash Price.....**$67.95**

261 A 2527 — For Ford 1933-34, V-8, 85 H.P. (with $30 Refund Coupon). Cash Price....**$73.95**

261 A 2528 — For Ford 1935-36, V-8, 85 H.P. (with $35 Refund Coupon). Cash Price....**$79.95**

Be Sure the Motor You Order is the Same Year and Model as the One You Return





CYLINDER HEAD AND ROCKER ARM ASSEMBLIES

- **$2 Trade-In Allowance for Old Rocker Unit Assemblies. No Old Heads to Return—You Save on Transportation.**

Buy a complete assembly or the two Rocker Arm and Shaft assemblies separately. See Table Below. Practically all new—a brand new head with new silichrome exhaust valves, new chrome nickel intake valves, new guides and new springs. New rocker arm shafts and new bushings for smooth quiet performance. Only the rocker arms are rebuilt—they're carefully selected for best service. We include a coupon good for $2 refund when you send old rocker units (arms, shafts only) *Prepaid* to Mail Order House. **Shipped from Factory** in St. Louis, Mo. Allow 4 Days Extra.

*Fits All Models	Complete Cylinder Head Assembly Av. wt. 87 lbs.		Rocker Arm and Shaft Assemblies Only Av. wt. 10 lbs.	
Chevrolet 1929	261 A 2410	$22.95	261 A 2444	$7.49
1930-31	261 A 2411	22.95	261 A 2444	7.49
1932	261 A 2412	22.95	261 A 2445	7.49
1933 Master	261 A 2413	23.45	*261 A 2445	7.49
1934 Master	261 A 2414	25.45	*261 A 2446	7.49
1935-36	261 A 2415	25.45	261 A 2446	7.49
1937	261 A 2416	25.95	261 A 2447	7.49
1938-39	261 A 2417	25.95	261 A 2447	7.49
1940	261 A 2417	25.95	261 A 2448	7.49

PISTON-VALVE KIT

- **Every Part matched for best fit.**
- **New 3-Ring Heavy Duty Reinforced Aluminum Pistons.**
- **New Pins and New Skirt Expanders.**
- **New Tin-Coated Rings with one Ventilated Segment Expander Ring on each Piston.**
- **New Silichrome Exhaust Valves; Chrome Nickel Intake Valves.**
- **New Valve Guides, Springs.**
- **With Ring Compressor.**

Every piece the same high quality as in Wards Rebuilt Motors. No need to rebore cylinders, will service up to .020 wall taper. Take micrometer measurement of cylinders at bottom and order that size. Furnished in standard to .060 oversize. State size. **Shipped from** Factory stock in St. Louis, Mo. Allow 4 Days Extra. Ship. wt. 20 lbs. *Mailable.*

M261 A 7550—Kit for Ford V-8, 1932-36. (Flat Head Pistons). Cash..**$21.45**

M261 A 7551—Kit for Ford V-8, 85 H.P. 1937-41. (Dome Head Pistons) **$21.45**

ASSEMBLED BLOCK FOR FORD A-AA

$37.75 Cash
With Old Motor
$5 A Month

Entirely New Parts—38 Fac-
y Renewed Parts—100 Fac-
y Rebuilding Operations.

EW 1941 Type, Air-Cooled 4-Ring Aluminum
istons. One Extra Compression Ring.
EW Piston Pins and Rod Bushings.
EW Tin-Coated Piston Rings with one Venti-
ted Segment Expander Oil Ring on Each Piston.
EW Valve Guides, Tempered Valve Springs.
EW Metal Crankshaft and Fiber Camshaft Tim-
g Gear.
EW Silichrome Super Heat-Resisting Exhaust—
EW Chrome Nickel-Alloy Intake Valves.
ebored Cylinder Walls—Double Honed.
enewed Valve Seats and Push Rods.
ebabbitted, Realigned Connecting Rods.
ll Crankshaft, Connecting Rod and Main Bear-
g Surfaces Reground. New Connecting Rod and
ain Bearings.
pped from Factory in Williamsport, Pa. Allow 4
s extra. You pay transportation from there or from
ll Order House, whichever is nearer you. Read order-
information on opposite page. Use your present cyl-
er head, carburetion, ignition, manifold, oil pan, etc.

81 A 2510—For Ford A-AA, 1928-29-30-31 Cars and **ucks. ($13 Refund). Ship. wt. 210 lbs $50.75**

COMPLETE MOTOR FOR FORD A-AA

$53.95 Cash
With Old Motor
$5 A Month

Block Like at Left PLUS 75 Precision Factory Rebuild-
ing operations, and 35 Entirely New Parts

- **NEW High Compression Head with Gaskets.**
- **NEW Distributor Parts.**
- **Renewed Distributor Housing with New Bushings, 1-Piece Shaft. Breaker Plate, Base Plate and Cam.**
- **NEW Sparkling Ignition Coil.**
- **NEW Tillotson-Built Carburetor.**
- **NEW Wards Supreme Quality Spark Plugs.**
- **NEW Pulley and Ratchet.**
- **NEW Oil Filler Cap. Renewed Oil Pump.**
- **Renewed Crank Case, Timing Gear Housing**
- **Renewed Intake and Exhaust Manifold. NEW Gaskets.**

Don't trade in your car—trade in your motor. Restore new car pep—save on gasoline and oil. You can do this, and without straining your budget—Buy your Completely Rebuilt Ford A or AA Motor on Time. See Inside Back Cover for Details. **Shipped from Factory Stock** in Williamsport, Pa. Allow 4 days extra. Ship. wt. 350 lbs. Read "How to Order" on opposite page.

281 A 2507—Complete Motor for Ford A-AA 1928-29-30-31 Cars, Trucks ($16 Refund). Cash **$69.95**



CRANKSHAFT—CONNECTING ROD KIT

- **Liberal Allowance for Old Assembly.**

Original Crankshafts Used—aligned, reground on all bearing surfaces. Rods matched into sets—realigned, fitted with new bearings. New main bearings. Old assemblies must be suitable for rebuilding, must not have been previously reground. **Shipped from Factory stock** in St. Louis, Mo. Allow 4 Days Extra. See "How to Order" on opposite page.

For Ford V-8, 85—Cars, trucks. Wt. 75 lbs.

261 A 2535—1932-36. ($5 Refund).....**$22.95**

261 A 2533—1937-38. ($6 Refund Coupon).. **21.95**

For Ford A-AA 1928-31 Cars and Trucks. Rebabbitted rods. 3 main bearings caps—rebabbitted undersize. Ship. wt. 45 lbs. *Mailable.*

M261 A 2529—($1.50 Refund coupon). Set.....**$8.95**

CHEVROLET Cars, Trucks—Rebabbitted rods, New Main Bearing Inserts. Wt. 69 lbs.

For These Models Only	Refund	Article No.	Set
1929-30 All	$1.00	281 A 2530	$14.95
1931 All	1.00	281 A 2531	14.95
1932 All	5.00	281 A 2532	18.95
1933-34 Master	6.00	281 A 2534	21.95
1935-36 All	6.00	281 A 2536	21.95
1937-38 All	9.00	281 A 2526	27.95
1939-40 All	12.00	281 A 2576	30.95

Plymouth 1933-40—State Make, Year, Model. (Pc. PD, etc.). Ship. wt. 75 lbs.
261 A 2540—($12.00 Refund). Set.....**$34.95**

Dodge 6, 1933-39—State Make, Year, Model. Wt. 85 lbs. Cars Only.
261 A 2525 ($13.00 Refund). Set.....**$35.45**

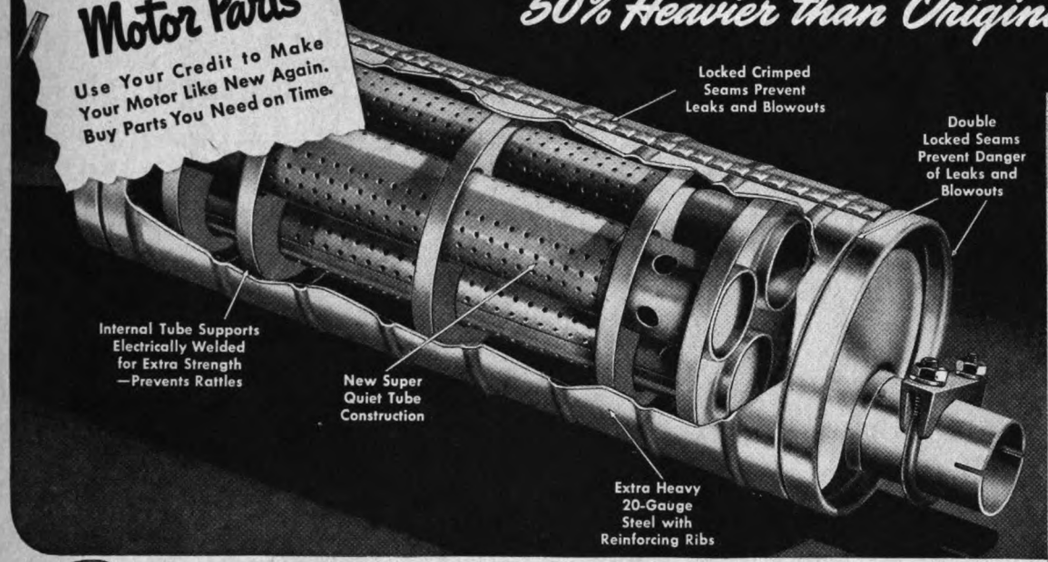
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SUPREME QUALITY MUFFLERS

50% Heavier than Original Equipment

Motor Parts

Use Your Credit to Make Your Motor Like New Again. Buy Parts You Need on Time.



See What You Save!

Why pay more? Wards Better Quality Mufflers are 50% heavier than original equipment to give longer service. Check the typical savings below.

Muffler For	Dealer's Price	Wards Price	You Save
Ford A-AA . . .	$4.50	$1.79	$2.71
Ford V-8	2.50	1.75	75c
Chev. 6	3.75	1.75	2.00
Plymouth 6 . . .	3.60	2.29	1.31
Dodge 6	6.00	3.10	2.90

See What You Get!

- Heavy 20 gauge steel with 18 gauge ends. 50% thicker than original equipment.
- Large 1¾ in. tubes allow fast flow of exhaust, in many cases faster than original muffler. This means less back pressure—increased horsepower —longer life for valves and less carbon.
- Special design blows out condensation which collects in other mufflers and rusts out bottom.
- Engineered to fit your car. Three-pass round type is shown but Wards mufflers come in round, oval or long to fit all cars listed below.



Cold Rolled Steel Mufflers

Leak-proof—blow-out-proof. Built heavier than original equipment, yet you save up to ½ car dealer prices. All the features of cut-away view above except outer shell not ribbed. Not plated. Listings are mufflers only, unless stated. Clamps furnished where required. Muffler for Ford Model A shipped from Stock; others shipped separately from Factory in Chicago, Minneapolis or Brooklyn, N.Y. usually in 3 extra days. *All Maisable.*

Fit Pass. Cars, ½ Ton Trucks, Unless Stated.

	Article No.	Price	Lbs.
BUICK—1929–30, 6-cyl., 29-40, 29-50, 30-50, 30-60	M261 A 2050	$2.69	14
1930, 30-40; 1931–32 8, 60	M261 A 2071	2.49	12
1931–32, 8-cyl., 8-50, 32-50	M261 A 2074	2.55	12
1933–35, 8-cyl., Series 50	M261 A 2001	3.75	19
1933, 8-cyl., Ser. 60, 80, 90	M261 A 2002	3.95	20
1934–35, Ser. 60, 90	M261 A 2002	3.95	20
1934–36, 8-cyl., Series 40	M261 A 2086	2.95	14
CHEV. 1916–1928, All 4-cyl.	M261 A 2056	1.19	6
1934, Std. 6, DC	M261 A 2003	1.29	6
1935, Std. 6	M261 A 2007	1.79	10
1936, Std. 6	M261 A 2087	1.85	10
1934–36, ½, 1½ Ton Trucks only except Std. 6	M261 A 2003	1.29	6
1937–39, Trucks only, ½, ¾, 1, 1½ Ton except GB and HB	M261 A 2019	1.39	6
CHRYSLER—1927–28, 4-cyl., 50-52	M261 A 2067	1.79	9
1931–32, 6-cyl., C, CM	M261 A 2076	2.25	10
1934, 6-cyl	M261 A 2010	3.15	11
DODGE 6,1931–32, DH, DL. 1933, 6-cyl., DP, After Ser. No. 3,584,044, with exhaust pipe.	M261 A 2076	2.25	10
1934, 6-cyl	M261 A 2004	2.69	14
1931–35 Trucks only ½, ¾, 1 and 1½ Ton	M261 A 2010	3.15	11
1936–40 Trucks only, ½, ¾, 1 and 1½ Tons except models RG, TG, VG, VR	M261 A 1877	2.69	10
DESOTO, 1928–30, 6-cyl.	M261 A 1878	2.39	12
1931–32, 6-cyl., SA, SC	M261 A 2067	1.79	9
FORD, A,1928–31 (Withpipes)	M261 A 2076	2.25	10
1933–34, V-8 40	P161 A 2005	1.79	13
1934–37, V-8, 1½-Ton Only	M261 A 2082	1.85	9
1938–39, V-8; 1½-ton Only	M261 A 2094	1.85	10
G.M.C. Truck 1936–40, ½ Ton and 1938–40, ¾ Ton	M261 A 2054	1.89	10
HUDSON, 1934–36, 8-cyl. Std. 6, DeLuxe 8, 1938; DeLuxe 90, 98, 112—6-cyl. 1939	M261 A 1879	2.39	10
8 cyl., 1937–41; 6 cyl. 1937	M261 A 2095	2.19	9
6 cyl., 1938–41	M261 A 1872	2.10	10
INTERNATIONAL TRUCK ½, ¾ and 1 Ton 1933–40 except C-12, C-15 in the year of 1936	M261 A 1870	3.29	14
MERCURY, 1939–41, 95-H.P. All Models	M261 A 1871	2.49	12
LAFAYETTE 6, 1938–40	M261 A 1880	2.69	11
LINCOLN-ZEPHYR 1936–41, All Models	M261 A 2053	1.89	11
NASH 6, 1937; 1940, 6 Cyl	M261 A 1876	2.39	14
OLDS., 1930–31, 6-cyl., After Serial No. F244975	M261 A 1875	3.39	17
1934, 6-cyl. All Models	M261 A 1876	2.39	14
1935, 6-cyl. All Models	M261 A 2083	1.98	10
1936, 6-cyl. All Models	M261 A 2013	2.39	12
	M261 A 2014	2.39	13
	M261 A 2089	2.39	14
PLYMOUTH, 1929–30, 4	M261 A 2067	1.79	9
1932, PA, (with front ex. pipe)	261 A 2078	2.15	9
1932, PB, (with front ex. pipe)	261 A 2079	2.25	10
1933, PC, PD; 1934, PF, PG (with front exh. pipe only)	M261 A 2080	2.49	13
1934, DeLuxe 6, PE (with front exhaust pipe)	M261 A 2004	2.69	14
1935, 6-cyl. (with front exhaust pipe and flange)	M261 A 2012	2.69	13
PONTIAC 1930 6-cyl.	M261 A 2063	2.15	12
1933 8-cyl	M261 A 2086	2.35	14
STUDEBAKER, 1937–41, All 6-cyl., except Champion 6, Champion, 1939–41	M261 A 2059	2.55	12
	M261 A 1873	2.35	11
TERRAPLANE, 1934–36, 6-cyl., All Models	M261 A 2081	1.95	8
1937–38, 6. Except Mod. 81, 82.	M261 A 2095	2.19	9
1938, 6 cyl. Mod. 81, 82	M261 A 2060	2.29	12
WILLYS 4, 1935–39	M261 A 1874	1.59	8

If Your Car or Truck is Not Listed Write for Prices. State Make, Year, Model.

Lead Coated! Rust-Resisting!

Made of Terne-Plate Steel—Protective lead coating inside and out to fight the destructive effects of exhaust acids and water. Gives 80% longer life than original. Will give service equal to other "coated" steel mufflers selling at higher prices. Three tube construction on all except Buick; Chev. 1929–32; Olds., Pontiac, which are same type as original. *Maisable.*

Fit Pass. Cars and ½-Ton Trucks Only

Fit Only Models Listed	Article No.	Price	Lbs.
BUICK, 1937–41, 8, 4., 60, 80, 90	461 A2300	$3.49	15
CHEV. 6, 1929–32; Std. 6, 1933	461 A2301	1.25	8
1933 Master 6	461 A2302	1.75	12
1934 Master 6	461 A2303	2.10	12
1935–36 Master 6	P461 A2304	2.10	12
1937–39 Master; Master De Luxe Cars GB, HB, Sedan-Delivery	P461 A2305	2.10	11
1940, Master, Master De Luxe	461 A2319	2.49	11
CHRYSLER, DeSoto 6 1935	461 A2306	3.10	15
1936–37	461 A2307	3.39	14
1938–41	461 A2308	3.59	16
DODGE 6, 1935 Pass. Cars only	461 A2306	3.10	17
6, 1936–38 Pass. Cars only	461 A2307	3.39	14
6, 1939–41 Pass. Cars only	461 A2308	3.59	16
FORD 1935–38, V-8, 85 H.P.; Early 1937, 60 H.P. 17 in. long	P461 A2309	1.75	11
1937–40, V-8, 60 H.P.	461 A2310	1.75	10
1939–40, V-8, 85 H.P.	461 A2311	1.75	11
GRAHAM, 1932–35, 6-8-cyl	P461 A2318	2.29	15
OLDSMOBILE 1937–38, 6-8-cyl	461 A2312	2.39	16
1939–41, 6 -cyl, Series F	461 A2313	2.29	12
1939–41 6-8-cyl. Series G, L	461 A2314	2.29	12
PLYMOUTH, 1936–41, Std.; Business Line, Road King Models	461 A2316	2.29	10
1936–41, De Luxe 6-cyl.	461 A2317	2.59	13
PONTIAC, 1934–41, 6-8-cyl	P461 A2318	2.29	15

Stainless Steel—Outlasts Your Car

Exclusive at Wards. Solid *Stainless Steel* Shell (not a coating)—Do not be confused by claims made for COATED steel Mufflers at equal or higher prices. Will last the life of your car. The best muffler money can buy. Not affected by gases, acid, water, or other destructive elements that cause rust and corrosion in ordinary mufflers. Leak-proof—blow-out-proof. Inner construction as pictured above, except Buick; Olds and Pontiac which are straight-through construction like original equipment. Designed and constructed to meet the exacting requirements of your particular car or truck. *Maisable.*

Fit Pass. Cars and ½ Ton Trucks Only

Fit Only Models Listed	Article No.	Price	Lbs.
BUICK 1937–41, All Models	461 A 2254	$4.29	10
CHEVROLET 1935–36, Master 6 1937–39, 6, Pass. Cars and GB, HB Sedan-Delivery Trucks	461 A 2258	2.98	9
	461 A 2250	2.69	9
1940, Master; Master DeLuxe	461 A 2262	3.19	11
CHRYSLER 1936–37, 6 Cyl.	461 A 2255	3.98	11
1938–41, 6 Cyl.	461 A 2256	4.25	11
DESOTO 1936–37, 6 Cyl.	461 A 2255	3.98	11
1938–41, 6 Cyl	461 A 2256	4.25	11
DODGE 1936–38, 6 Cyl. Pass. only.	461 A 2255	3.98	11
1939–41, 6 Cyl. Pass. Cars only.	461 A 2256	4.25	11
FORD 1935–38, V-8, 85-H.P.	461 A 2251	2.39	10
1939–40, V-8, 85 H.P.	461 A 2252	2.39	10
GRAHAM 1932–35, 6-8 Cyl	461 A 2259	3.29	10
OLDSMOBILE 1937–38, 6 and 8	461 A 2260	3.49	10
1939–41, 6, Series F	461 A 2261	3.49	9
PLYMOUTH 1936–41, DeLuxe 6 cyl. All Models	461 A 2253	3.29	10
PONTIAC 1934–41, 6 and 8 cyl.	461 A 2259	3.29	10

Wards Standard Quality Muff

Baffle Plate Type (see cutaway above). A Muffler at low cost. Engineered to fit your par car. Heavier than most original equipment. W seams. Made of cold rolled 20-gauge steel. *All able except P161 A 1995.*

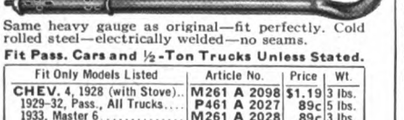
Fit Pass. Cars and ½ Ton Trucks Only

Muffler Only Unless Stated	Article No.	Price
BUICK, 1937–41, 8-cyl., Series 40, 60, 80, 90	461A1985	$2.75
CHRYSLER, 1936–37, 6-8-cyl	461A1988	2.75
CHEVROLET, 1916–28, All	P561A1996	65c
1929–32, All Std. 6, CC-1933	P561A1997	67c
1933, Master 6 models	P461A1998	95c
1934, Master 6 models	P561A1990	$1.14
1935–36, Master 6 models	P561A1991	1.14
1937–39, Cars, Sedan-Del.	P561A1992	1.14
DE SOTO, 1934–37, 6-cyl. SE, SI, S2, S3	461A1986	2.75
DODGE, 1936–38, 6-cyl.	461A1986	2.75
FORD, 1909–27, T-TT (Exhaust Pipe, Nut included)	461A2820	1.79
1928–31, Model A (With Exhaust, Tail Pipes Not Mailable)	P161A1995	1.09
1932–34 V-8, All Models	P561A1993	1.09
1935–38, V-8 (Exc. 60 H.P.)	P561A1994	98c
OLDSMOBILE, 1937–38, 6-8	461A1987	$1.95
PLYMOUTH, 1936–41, De Luxe 6-cyl. All Models	461A1988	1.45
PONTIAC, 1934–41, 6, 8-cyl	461A1989	1.49

"P" Before Article No. means also stocked at Pittsburgh

If Your Car is Not Listed Write for Prices

Wards Supreme Quality Exhaust Pipes Motor to Muffler **85c** and up



Same heavy gauge as original—fit perfectly. Cold rolled steel—electrically welded—no seams.

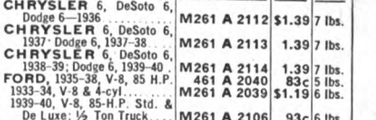
Fit Pass. Cars and ½-Ton Trucks Unless Stated.

Fit Only Models Listed	Article No.	Price	Wt.
CHEV. 4, 1928 (with Stove)	M261 A 2098	$1.19	3 lbs.
1929–32, Pass., All Trucks	P461 A 2027	89c	5 lbs.
1933, Master 6	M261 A 2028	89c	3 lbs.
1934, Master 6	M261 A 2029	85c	3 lbs.
1935–36, Master 6	M261 A 2030	85c	4 lbs.
1937–39, All 6-cyl. Pass Cars	M261 A 2096	98c	4 lbs.
1933–39, 6, ½, 1½ ton Trks	261 A 2097	$1.85	4 lbs.
FORD, 1937–39, V-8, 85 HP.	M261 A 2099	1.55	4 lbs.

Ⓐ Tail Pipes Only—Muffler to Rear

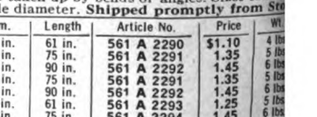
For Exhaust Pipes, See Above	Article No.	Price	Wt.
BUICK 1936, 40 Series	M261 A 2042	$1.10	5 lbs.
1937, 40-60 Series	M261 A 2043	1.35	7 lbs.
1938, 8-cyl. 40, 60 Series	M261 A 2105	1.45	7 lbs.
1939, 8-cyl. 40, 60 Series	M261 A 2111	1.29	7 lbs.
CHEV., 1929–32, 6, ½-Ton.	P461 A 2031	49c	3 lbs.
1933, Master 6	461 A 2032	55c	3 lbs.
1934, Master 6	461 A 2033	95c	4 lbs.
1933–34, Standard 6	M261 A 2034	69c	2 lbs.
1935–36, Master 6	161 A 2044	93c	6 lbs.
1936, Standard 6	461 A 2045	93c	6 lbs.
1937–39, All 6-cyl. Pass	P161 A 2041	93c	5 lbs.

Wards Tail Pipes Muffler to Rear **49c** and up



Fit Only Models Listed	Article No.	Price	Wt.
CHRYSLER 6, DeSoto 6, Dodge 6—1936	M261 A 2112	$1.39	7 lbs.
CHRYSLER 6, DeSoto 6, 1937 Dodge 6, 1937–38	M261 A 2113	1.39	7 lbs.
CHRYSLER 6, DeSoto 6, 1938–39; Dodge 6, 1939–40	M261 A 2114	1.39	7 lbs.
FORD, 1935–38, V-8, 85 H.P.	461 A 2040	83c	5 lbs.
1933–34, V-8 & 4-cyl.	M261 A 2039	$1.19	6 lbs.
1939–40, V-8, 85-H.P. Std. & De Luxe; ½ Ton Truck	M261 A 2106	93c	6 lbs.
1939–40, V-8-60 H.P.	461 A 2040	83c	5 lbs.
OLDS. 1937–38, 6 & 8 cyl.	M261 A 2064	$1.05	7 lbs.
1939, Series F, 6-cyl.	M261 A 2115	1.35	4 lbs.
1939–40, Series G; 6; 1939, 8	M261 A 2116	1.45	7 lbs.
PLYMOUTH, 1932, PA	M261 A 2037	93c	3 lbs.
1933, 6-cyl., PD	M261 A 2035	93c	3 lbs.
1933–34, 6-cyl., PC, (after 1788486), PF, PG, Coupe	M261 A 2038	89c	3 lbs.
1935, 6-cyl	M261 A 2046	$1.25	5 lbs.
1936, 6-cyl	M261 A 2047	1.22	7 lbs.
1937–38, 6-cyl.	M261 A 2065	1.25	7 lbs.
1939, 6-cyl., P-7	M261 A 2107	1.35	7 lbs.
1939 6-cyl., P-8	M261 A 2103	1.35	7 lbs.
PONTIAC, 1930–32, 6	M261 A 2036	1.10	2 lbs.
1935–36, 6 & 8 cyl	M261 A 2048	1.10	5 lbs.
1937–38, 6 & 8 cyl	461 A 2066	1.10	6 lbs.
1939, 6-cyl., EA	M261 A 2108	1.10	6 lbs.
1939–40, 6-8 cyl. De Luxe	M261 A 2109	1.10	6 lbs
STUDEBAKER 1938–40, Commander 6 cyl.	M261 A 2117	1.45	7 lbs.
1939–40 Champion 6-cyl	M261 A 2118	1.35	5 lbs.

Bendable Tail Pipes Fit Any Car or Truck **$1.10** and up



Bend this pipe to any position required. Flex Steel tubing with seamless steel end pieces bra on. Becomes rigid after installation. Be sure you order is same diameter and as long as old p When measuring your old pipe, be sure to inc length taken up by bends or angles. Sizes shown outside diameter. **Shipped promptly from Ste**

Diam.	Length	Article No.	Price	Wt.
1½ in.	61 in.	561 A 2290	$1.10	4 lbs
1½ in.	75 in.	561 A 2291	1.35	5 lbs
1½ in.	90 in.	561 A 2292	1.45	6 lbs
1⅝ in.	75 in.	561 A 2291	1.35	5 lbs
1⅝ in.	90 in.	561 A 2292	1.45	6 lbs
1¾ in.	61 in.	561 A 2293	1.25	5 lbs
1¾ in.	75 in.	561 A 2294	1.45	6 lbs
1¾ in.	90 in.	561 A 2295	1.65	7 lbs
2 in.	86 in.	561 A 2296	1.79	7 lbs.

SHIPPING INFORMATION FOR TAIL AND EXHAUST PIPES

Items keyed "M261", "561", "461" Mailable; others not m able. Items marked "161", "561", "461" shipped from sto others from Factory in Chicago, Minneapolis or Brookl usually in 3 extra days. "P" before Art. No. means sh ped also from Pittsburgh.

Write for prices on Mufflers, Exhaust or Tail Pipes f Cars or Trucks not listed. State Make, Year and Mod



Carburetor Jet Adjusters

Ⓐ **61 A 2178**—For Ford V-8, 85 1934–37. Olds. 8, Buick 8-40 1934–35. Shipping weight 4 oz. Pair. 22c

Ⓑ **61 A 2177**—For 1928–31 Ford A-AA, All. Ship. wt. 2 oz. Each . . 27c

Ⓒ Carburetor Needle&Seat Assem.

61 A 6096—For Chev. 1927–28 (Carter Carb.) Ship. wt. 2 oz. 25c

61 A 6097—For Chev. 1929–40 (Carter Carb.) Ship. wt. 2 oz. 25c

61A6098—Ford A-AA, 1928–31-4 Shipping weight 2 oz. 25c

Ⓓ Tillotson Air Filter

Copper-wool. Keeps out dirt. Ship. wt. 15 oz.

61 A 5740—For 61 A 5719—28-2181—2, 2186, others with 1⅞-in. air inlet. Each . . . 69c

61 A 5741—For 61 A 5720-21 others with 2 5/16-in. air inlet. Each 69c

61 A 5742—For Carburetors 61 A 5722-24-46; 61 A 2188-89, others with 2 5/16-in. air inlet. Each. 69c

Tillotson Gas Filters

Ⓔ **61 A 3468**—For all Cars with Vacuum tank. Wt. 1 lb. Each. 49c

Ⓕ **61 A 3469**—(Same as above but without shut-off valve.) For all cars originally equipped with Fuel Pumps. Ship. wt. 14 oz. Each 69c

Gas Lines—Ship. wt. 4 oz.

Ⓖ **61 A 1101**—For Ford V-8 1932–41. . . . . 19c

61 A 1102—Plym., DeSoto, Dodge, Chry., 1932–35. . 23c

61 A 1105—For Dodge, Plymouth 1936 . . . . . 23c

61 A 1106—Chry., Dodge, DeSoto, Plym. 1937–41. 23c

Oil Lines—Ship. wt. 4 oz.

61 A 1103—Chev., Dodge '32-41, Desoto-Plymouth 1931-41, Lafayette 1935–36. . . 19c

Seamless Copper Tubing

Ⓗ **61 A 6933**—In 10 Ft. Co only. Sizes are outsi diam. Ship. wt. 1 lb. 6 oz. 3/16 in. . . . 35c; ¼ in. . . . . 42 5/16 in. . . . 49c; ⅜ in. 59

Ⓚ **61 A 9835—Tubing Cut ter, Reamer**—Cuts Copper Brass or Aluminum Tubing u to ¾ in. Ship. wt. 10 oz. . . 95

Ⓙ **61 A 9836—Flaring Too** —for tubing up to ½-in Ship. wt. 1 lb. 2 oz. Each. $1.2

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FAMOUS TILLOTSON CARBURETORS

Give more Power!..Use less Gas!



Save ½ the Price of Original Equipment

Carburetor For	Dealer's Price	Wards Price	You Save
Ford A, AA, 1928-31 .	$ 5.50	$3.49	$2.01
Chev. 4, 1925-28 . .	10.00	5.49	4.51
Chev. 6, 1929-31 . .	10.00	4.98	5.02
Dodge 6, 1935-38 . .	15.00	7.49	7.51
Plymouth 6, 1933-38	15.00	7.49	7.51



FLOW BENCH TEST
Every one bench tested—assures proper mixture of air and gas at various throttle openings.



FACTORY INSPECTED
Run-in test on all Tillotsons guarantees correct assembly and maximum operating economy.



EASY TO INSTALL
Do it yourself—save on labor costs. Installation and adjusting instructions included.

w Tillotson Automatic oke Control Carburetor $9.95

new Tillotson automatic choke control buretor provides satisfactory carefree ation of your car under all weather con- ns from starting to high speed. No ual choke button to pull—no erratic ing, bucking, stalling of car. Carbure- cannot stick closed causing flooding. No ess fuel consumption, diluted oil. It's a ll concentric type carburetor with dual ts and improved nozzle arrangement. vents spilling of fuel on grades and rough ds. Minimizes fuel loss due to vibration flexibly mounted motors. Simply turn on e switch—step on starter, and away you at any speed and with positive smooth eration—and best mileage.

Easily installed—no extra parts to buy. n be used on all cars listed regardless of ther automatic choke was factory equip- nt. Simple foolproof adjustment—to com- nsate for abnormal temperatures or alti- des.

A 5747—For Chev. 6, 1932–41; Dodge 6, 33–38; Hudson 6, 1935–36, 1938–41, Mod- 92, 112, 40, 10; Olds. 6, 1934–40; Plymouth 933–38; Pontiac 6-8, 1933–39, 1940–41, 6- 6, 1940, 8-40 and 28; Studebaker 6, Dictator d Commander 1935–41; Terraplane 6 with d. Gearshift 1934–38. Ship. wt. 7 lbs. . $9.95

BUY ON TIME

Build Up Your Order to $10 or More and Pay By the Month. For Example, if You Want a Ford V-8:

New Tillotson Carburetor	$5.98
New Fuel Pump (Exch.)	.95
New Stainless Steel Muffler	2.39
New Exhaust Pipe	1.55
New Tail Pipe	.83
Total Cost Order	$11.70

You Pay Only $2 Down, $2 A Month. For Details See Inside Back Cover.

For Ford A-AA	For Ford V-8	For Chev. 4	For Chev. 6	For Plymouth 6
$3.49	$5.98	$5.49	$6.29	$7.49

TILLOTSON CARBURETORS FOR FORD, CHEV., PLYMOUTH—(Described at Right)

Fit Only Makes, Years and Models Listed	Lbs.	Oz.	Article No.	Price
FORD 1928–34, A-AA, B-BB 4 cyl. cars, trucks	3	8	61 A 2181	$3.49
1932–33, V-8 Passenger Cars, Trucks	6	4	61 A 5744	5.98
1934–38 and 1940–41 V-8, 85 H.P. Cars, Trucks; Mercury 1940–41	8		61 A 5723	6.59
CHEVROLET 1925–28 Passenger Cars, Trucks	5	12	61 A 5727	5.49
1929–31 Pass. Cars, Trucks	4	12	61 A 5728	4.98
1932–33 Std., Master, Pass. Cars, Trucks	5		61 A 5746	6.29
1934–41 Std., Master, Pass. Cars, Trucks	5	12	61 A 5722	7.49
PLYMOUTH 1928–31, 4-cyl. Cars (exc. Float. Power)	4		61 A 5719	5.79
1933–38, 6-cyl. Passenger Cars	5	12	61 A 5722	7.49
1939–41, 6-cyl. Passenger Cars	5	14	M261 A 5725	8.49

1941 engineering improvements in these new ***Tillotson*** Carburetors will give you 2 to 5 more miles per gallon of gasoline. You'll soon pay for your new carburetor with the savings. You'll notice a big difference in speed, pick-up, and starting, too. Your car will idle more smoothly because it's possible to make finer adjustments on a ***Tillotson***. You'll banish the annoyance of a dying motor when you pull up to a stop light. Put on a new ***Tillotson*** carburetor now—in most cases you'll find it's cheaper, and far better, than to overhaul your old one.

All listings marked M261 mailed from Factory in Toledo, Ohio, usually in 5 extra days; all others from Stock. For cars originally equipped with Automatic choke carburetors Wards furnish a manually controlled choke attachment except Automatic choke type at left.

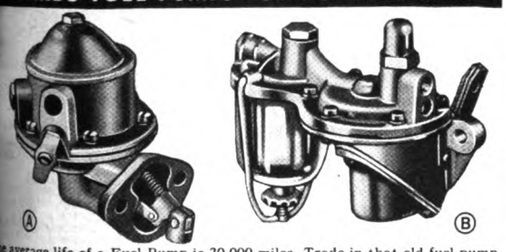
FAMOUS TILLOTSON CARBURETORS FOR OTHER POPULAR CARS—(Described Above)

FIT ONLY CAR MAKES, YEARS AND MODELS LISTED BELOW	Av. Wt. 7 Lbs. ARTICLE NO.	PRICE
AUBURN 1927–28, 8, Series 77	61 A 5720	$7.25
1927–30, 6, Series 80, 66	61 A 5720	7.25
1935–37, 6, 53, 54, No. 6501 & Up	61 A 5722	7.49
1933–34, 8, Series 8-105, 850X	M261 A 5725	8.49
BUICK, 1926–28, Master 6, Series 120, 128	M261 A 6051	10.49
1929–30, Std. 6, Series 116, 40	M261 A 6052	10.49
1929–30, Master 6, 121, 129, 50, 60	M261 A 6053	10.49
1931, Series 8-50 to 8-57	M261 A 6054	10.49
CHANDLER 1927–29, Ser. 31, 65	61 A 5719	5.79
CHRYSLER 1927–29, 6, Series 72, 75	M261 A 6055	8.49
1929–32, 6, Series 77, 70, 70-V	M261 A 6056	10.29
1930–32, 8, Series CD, CP	M261 A 6057	10.29
1935–41, 6, with Std. Trans	M261 A 6066	9.49
1925–28, Series 58, 50, 52, 60, 62	61 A 5719	5.79
1930–31, 6, Series CJ	61 A 5719	5.79
1928–32, 6, Series 65, 66, CM, CI	61 A 5720	7.25
1926–27, 6, Series 70	M261 A 5721	7.79
1933–34, 6, Series CA, CB, CO	M261 A 5725	8.49
DESOTO 1928–31, 6, K, CK	61 A 5719	5.79
1931–32, 6, SA, SC	61 A 5720	7.25
1933–41, 6, with Std. Trans	M261 A 6066	9.49
1931–32, 8, CF	M261 A 6057	10.29

FIT ONLY MAKE, YEAR, MODEL LISTED	Av. Wt. 7 Lbs.	PRICE
DODGE 1928–29, 6, Std. and Victory	M261 A 6065	$8.49
1928, 4, 128, 129	61 A 5719	5.79
1930–32, 6, Series DD	61 A 5719	5.79
1929–32, 6, Series DA, DH, DL	61 A 5720	7.25
1931–32, 8, DC, DG, DK	M261 A 6057	10.29
1933–34, 6, DP, DR, DS	61 A 5722	7.49
1933–38, 6, All Trucks 1¼-in. Carb	61 A 5722	7.49
1935–38, 6, All Pass. Cars	61 A 5724	8.49
1939–41, 6, All Pass. Cars	M261 A 6066	9.49
1933–41, 6, Trucks with 1½-in. Carb	M261 A 5725	8.49
DURANT 1930–31, 6, Series 17, 14, 12	61 A 5720	7.25
ERSKINE 1927–29, 6-Cyl. 50, 51, 52	61 A 5719	5.79
1930, 6-Cyl. Series 53	61 A 5720	7.25
GRAHAM-Paige, 1928–29, Ser. 610	M261 A 6059	6.95
1929–30, Series 612	M261 A 6061	7.98
GRAHAM 1930–34, Standard 6	M261 A 6063	7.98
1934–39, 68, 74, 80, 85, 90, 95, 96	61 A 5722	7.49
1935, 6, Series 73	61 A 5724	8.49
1936–39, 6, Series 110, 116, 120	M261 A 5725	8.49
HUDSON 1934–36, 6, 8-Cyl.	61 A 5724	8.49
1939–41, 6-Cyl. Series 92, 112, 40, 10	61 A 5724	8.49
HUPMOBILE 1927–28, A-2-3-4-5	61 A 5719	5.79
1928–32, A6, S6, 214	61 A 5720	7.25
1933–36, 6, All Models	61 A 5722	7.49
1932–33, 6, Series B-6, 216, 316	61 A 5724	8.49
1934–35, 6, 417W, 421J, 517W, 521J	M261 A 5725	8.49
INT. HARVESTER 1932–36, 4, A-2, C-20	61 A 5719	5.79
1928–36, 6, AL-3, SL-36, SF-36, A-3, 4, 5, 6, C-50, S-24, 26, SD-46, SF-46	61 A 5720	7.25
LA FAYETTE 1934–36, All 6-Cyl.	M261 A 6064	9.39

FIT ONLY MAKE, YEAR, MODEL LISTED	Av. Wt. 7 Lbs.	PRICE
MARMON 1927–32, L-8, 68, 78, 70	M261 A 5721	$7.79
NASH 1927–32, Light Std., Single 6, 660, 960	M261 A 5729	6.49
1933–36, 6, 8, 1120, 1130, 400	M261 A 6064	9.39
1932, 8, Series 970 to 977	61 A 5724	8.49
OAKLAND 1927, 6	61 A 5719	5.79
OLDSMOBILE 1927–30, 6, E, F28, F29, F30	61 A 5719	5.79
1932–33, 6, F32, F33	M261 A 5730	8.95
1931, 6, F31	61 A 5724	8.49
1934–40, 6, All Models	61 A 5724	8.49
PONTIAC 1926–28, 6, All Pass. Cars	M261 A 5731	6.49
1929–32, 6, All Pass. Cars	M261 A 5732	7.98
1933–34, 8, All Pass. Cars	61 A 5722	7.49
1935, 6, All Pass. Cars	61 A 5722	7.49
1935–39, 8, All Pass. Cars	61 A 5724	8.49
1936–41, 6, All Pass. Cars	61 A 5724	8.49
REO 1935, Speed Wagon 2B4, 2D4	M261 A 5725	8.49
ROOSEVELT 1929–31, 8-Cyl.	M261 A 5721	7.79
STUDEBAKER 1926–27, 6, ER, EU	61 A 5719	5.79
1926–27, Special 6	61 A 5720	7.25
1930–32, 53, 4, 5, 6-Cyl., Dict. FC 8-Cyl.	61 A 5720	7.25
1928–30, FD, Commander; EU Dictator	M261 A 5721	7.79
1934, Commander, 8 Cyl. Model B	M261 A 6066	9.49
1933–41, Dict, 6, 56, 1A to 11A Comm	61 A 5724	8.49
1939–40, Champion Series G	61 A 5722	7.49
TERRAPLANE 1932–33, 6, 8-Cyl.	61 A 5722	7.49
1934–36, 6, Series K, KS, KU, GU, 62	61 A 5724	8.49
1935, 6, Series G, 61 (Std. Gearshift Mod.)	61 A 5722	7.49
1936–38, 6, All Models with Std. Gearshift	61 A 5722	7.49
WILLYS 1933–40, 4-Cyl.	M261 A 5748	7.49

WARDS FUEL PUMPS FOR POPULAR CARS



The average life of a Fuel Pump is 20,000 miles. Trade in that old fuel pump now and be sure of proper performance. **25c trade-in allowance.**

Two Ordering Plans. 1st—Send old pump—Postpaid and exchange price, plus postage. Or **2nd**—Send full price plus postage; Wards mail pump and refund coupon (good for 25c). Send coupon to Mail Order House with your old pump Postpaid for refund. Ship. wt. 2 lbs. 14 oz.

Wards Supreme Quality NEW Fuel Pumps

95c Exch.

(A) 61 A 2788—**Ford** V-8, 85 and **Mercury** 1934–41.
(A) 61 A 2787—**Ford** V-8, 60 1937–40.
(B) 61 A 2789—**Chevrolet** 6, 1929–33.
(B) 61 A 2790—**Chev.** 6, 1934–36; **Buick** 8,40, 1934, early 1935.
(B) 61 A 2792—**Plymouth** 6; **Dodge** 6, 1933–38.
(B) 61 A 2794—**Chevrolet** 6. 1937–41.

Full Price.....$1.20; Exchange Price.....95c

Wards REBUILT Fuel Pumps—Tested at Factory

Low As **69c** Exch.

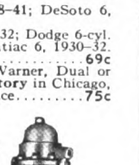
(A) 61 A 2721—Ford V-8, 85 H.P., 1934–37.
(A) 61 A 2714—Ford V-8, 85 H.P., 1938–41; Mercury 8, 1938–41.
(A) 61 A 2723—Ford V-8, 60 H.P., 1937–40.
(B) 61 A 2718—Fits Chevrolet 6, 1929–33.
(B) 61 A 2720—Chev. 1934–36; Buick 8-40, 1934, early 1935.
(B) 61 A 2724—Fits Chevrolet 6, 1937–41.
(B) 61 A 2722—Plymouth 6, 1933–35; Dodge 6, Cars and Trucks 1933–35, 1936–38; Chrysler 6, DeSoto 6, 1936–37.
(B) 61 A 2727—Plymouth 6, 1939–41; Dodge 6, Late 1938–41; DeSoto 6, Late 1938–40; Chrysler 6, Late 1938–41.
(B) 61 A 2719—Fits Chrysler 6, 1930–32; DeSoto 6, 1930–32; Dodge 6-cyl. Cars and Trucks 1930–32; Plymouth 4 U-PA 1930–32; Pontiac 6, 1930–32.

Full Purchase Price.....94c Exchange Price.....69c

M261 A 2725—For other types (except type D, Stewart-Warner, Dual or Booster). **State Make, Year, Model. Shipped from Factory** in Chicago, usually in 3 extra days. Full Price.....$1.00; Exch. Price.....75c

Rebuilt Fuel-Vacuum Type Pumps

$1.94 Exch.



Cleaned and checked by factory experts—New parts installed where needed. Replaces original equipment Fuel-Vacuum-type pumps on late model Buick, Chrysler, Olds, or Pontiac. Use same exchange plan above when ordering. $1.75 allowance for old fuel pump when returned to Ward Mail Order House. **Shipped from Factory** in Chicago, Ill. usually in three extra days. Ship. wt. 5 lbs. 12 oz. **State Make, Year, Model, Series of car.**

M261 A 2735—*Full Price*....$3.69; *Exchange Price*.....$1.94



- **Original Carburetors Rebuilt—Saves You ½.**
- **Every Worn or Damaged Part Replaced with New Parts.**
- **Completely Refinished, Assembled, Adjusted, and Tested at the Factory by Experts.**
- **Flow Bench Tested, Inspected, Like NEW Carburetors.**

Why let that faulty Carburetor cause you trouble? You can replace it Now with a Ward Factory Rebuilt Original Equipment Carburetor at a big saving over the cost of a new unit. Completely cleaned and checked by factory trained mechanics. Every part tested—all worn parts replaced with new parts. Instructions and gaskets included. **Only original equipment type carburetors accepted for refund. Order below. Body castings or controls of old carburetor must not be broken.**

HOW TO ORDER:—Exchange Price Plan: Send in your old carburetor *Postpaid* with Exchange Price, plus *Postage* for Rebuilt Carburetor. **Full Price Plan:** Send Full Price Plus *Postage*. We send refund coupon to be cashed later at Mail Order House when returned with old Carburetor *Postpaid*.

Fit Only Makes and Models Listed	Ship. Wt.	Article No.	Full	Exch.
FORD 1928–31, 4 cyl. Pass. Cars, Trucks, Models A, AA	4 lbs. 5 oz.	61 A 2186	$2.24	$1.89
1933, V-8, Pass. Cars, Trucks	5 lbs. 6 oz.	61 A 2176	3.75	2.25
1934–36, V-8 85 H.P. Cars, Trucks	5 lbs. 3 oz.	61 A 2187	4.49	2.49
1937–38, V-8, 85 H.P. Cars, Trucks	5 lbs.	61 A 2194	4.49	2.49
1939–41, V-8, 85 H.P. Cars, Trucks	5 lbs.	61 A 2198	5.19	2.69
CHEV. 1934–36 Master, Pass. Cars, Trucks	5 lbs. 7 oz.	61 A 2188	6.49	4.49
1937–38, Pass. Cars, Trucks	6 lbs.	61 A 2179	6.49	4.49
1939–41 Pass. Cars, Trucks	5 lbs.	61 A 2199	6.49	4.49
1929–31 Pass. Cars, Trucks	5 lbs.	61 A 2197	4.25	3.50
DODGE 1933–34, 6-Cyl. pass. cars, Trucks with 1¼-in. Carburetor	4 lbs. 8 oz.	61 A 2190	7.29	4.79
1935–38, 6-cyl. Pass. Cars only	5 lbs. 2 oz.	61 A 2191	7.29	4.79
PLYMOUTH, 1933–34, Pass.	5 lbs. 12 oz.	61 A 2180	6.49	4.49
1935–38, 6-cyl. Pass. Cars, Trucks	4 lbs. 8 oz.	61 A 2189	6.49	4.49



- **Liberal Trade-In Allowance for Old Carburetor.**
- **Equal to or Better than Most Original Equipment.**
- **Scientifically Designed Venturi for Improved Atomization of Fuel—Assuring Maximum Gas Economy.**
- **Adjustable Power Jets for Flashing Pick-up.**
- **Die Cast Body Parts—Few Moving Parts.**

Save more than ½ on these **brand new** Riverside Carburetors: For example: Chevrolet 6, 1929–31 Carburetor costs $10.00; Wards price is $4.25. Save even more by trading in your old carburetor. See table below for trade-in allowance. New Atomization device will save on fuel costs—Special low speed outlets give smooth running at slow speeds—power jets give surging response at high speeds. Flow bench tested and factory inspected just like the Tillotsons above—see pictures and description at top of page. Instructions for installation, adjusting included. Use same exchange Plan as Rebuilt Carburetors at Left.

Fit Only Makes, Models Listed	Lbs.	Oz.	Article No.	Full	Exch.
FORD, 1928–34 A-AA, B-BB, 4 cyl. Cars, Trucks	2	12	61 A 2182	$2.69	$2.34
1932–33, V-8 Cars and Trucks	6		*61 A 2195	5.29	3.79
1934–38, and 1940–41 85 H.P. V-8 Cars, Trucks	8		*61 A 2196	5.95	3.95
CHEV. 1929–31, 6-cyl. cars, trucks	3	8	*61 A 2183	4.25	3.50
1932–41, 6 cyl. Cars and Trucks	5	12	*61 A 2185	6.49	4.49
CHRYSLER 1925–28, 4-cyl	3	8	*61 A 2184	4.59	None
DESOTO 1928–31, 6-cyl	3	8	*61 A 2184	4.59	None
DODGE 1928, 4; 1930–32 6-cyl. DD	3	8	*61 A 2184	4.59	None
1933–34 6 cyl	5	12	*61 A 2185	6.49	4.49
OLDSMOBILE 1927–30, 6-cyl	3	8	*61 A 2184	4.59	None
PLYMOUTH 1928–31, 4-Cyl	3	8	*61 A 2184	4.59	None
1933–38, 6-Cyl	5	12	*61 A 2185	6.49	4.49

*Built-in Acceleration Pump.

Replacement Carburetor for Ford T-TT

For Ford T-TT, 1916–25. Gives the old Ford new Zip, Pep—improves gasoline mileage. Replaces original equipment perfectly. Instructions included.
61 A 2175—Ship. wt. 3 lbs. Each . . $2.59

CB AS WARDS 955

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Piston Rings

Same Quality as a Famous Brand

THE WARD LABEL SAVES YOU ½

CHECK THESE SAVINGS

Expander Ring Sets	Dealer Price	Wards Price	You Save
Ford A-AA 1928—31	$4.80	$2.25	$2.55
Ford V-8 1932—40	9.60	3.95	5.65
Chevrolet 6 1929—40	7.20	3.39	3.81
Plymouth 6 1933—40	9.60	4.95	4.65

STOP OIL PUMPING WITHOUT

New Segment Type Ring Sets—For .010 or More Cylinder Wall Taper



Which Ring Shall I Buy?

All popular nationally advertised rings sold today are good rings. All will do the job of restoring compression and stopping oil pumping, if properly installed. Wards rings are exactly the same as sold by a leading manufacturer under his own name at prices much higher. They are made of same materials and will give you the same good service.

Wards offer three types of rings: (1) **Regular Type** like your car had when new—use for rebored cylinders or cylinders with .005 or less taper that are not to be rebored; (2) **Flexible Expander Type** with spring steel inner expanders that make rings conform to bad out-of-round and tapered cylinder walls without reboring. Use in cylinders where taper is from .005 to .010. Do not use in rebored cylinders; (3) **Segment Expander Type** with inner expander, the newest and most flexible type of all. Expands to conform to most extreme out-of-round and tapered conditions without reboring. Use in cyl. where taper is .010 or more. Order Oversize only if your cylinders have been rebored. Measure with micrometer at bottom of bore. Listings Fit Only Original Pistons. If new pistons have been installed in your motor, be sure the ring grooves and number of rings are the same as original. Additional rings, if required, may be ordered from individual listings.

Motor Guard Multiple Segment Expander Piston Ring Sets

Use only where cylinder wall taper is .010 OR MORE, and where cylinders are not to be rebored. To get cylinder wall taper take micrometer measurement at top of cylinder (under ridge) and bottom of cylinder—difference is amount of taper.

Equal in quality to nationally advertised piston rings selling from $5 to $7 a set.

Restore original compression and oil-economy to "oil pump pers." Get perfect wall contact regardless of cylinder wall taper.

The 2 outside segments insure perfect compression because they are pressed against the cylinder wall by crimped spring steel expanders. The inner segments float free and provide an oil pocket for thorough lubrication. These free floating inner segments mean less cylinder wall drag without sacrificing compression—therefore more power.

Each set includes—**2 segment rings and inner expanders and 1 compression ring** (2, on 4 ring pistons) for each piston; also ring compressor and instructions. Average ship. wt. set 2 lbs. Art. Nos. marked "61" **Shipped from** Stock in Standard to .019 oversize; .020 to .060 oversizes and Nos. marked "M261" shipped from Factory near Grand Rapids, Mich., usually in 3 extra days. **State Size.**

Sold in Sets from Table Below

Motor Guard Ventilated Segment Expander Piston Ring Sets

Use only where cylinder wall taper is .010 OR MORE, and where cylinders are not to be rebored. To get cyl. wall taper take micrometer measurement at top of cylinder (under ridge) and bottom of cylinder—difference is amount of taper.

Same design and equal quality as nationally advertised rings selling at $7 to $10 a set. They restore original power and oil economy to badly tapered cylinders. Here's how they work: Outside segments give compression-tight seal. The center separator carries oil back through drilled piston grooves.

Set consists of:
—**One Plain Compression Ring** for top groove.
—**One Scraper Expander Compression Ring** with inner expander for 2nd groove.
—**One Ventilated Segment Expander Ring** with inner expander for 3rd groove.

For Pistons using 4 rings, an extra wide-slot oil control ring is furnished for 4th groove. Clamp for installation, instructions included. Wt. set 2 lbs. Fit cars, trucks unless stated. Art. Nos. marked "61" **shipped from** stock in Standard to .019 oversize; .020 to .060 oversizes and Nos. marked "M261" shipped from Factory near Grand Rapids, Mich. usually in 3 extra days. **State Size.**

Sold in Sets from Table Below

Supreme Quality Ventilated Segment Sets With Steel Spacer

Use only where cylinder wall taper is .010 MORE, and where cylinders are not to be rebored. To get cylinder wall taper take micrometer measurement at top of cylinder (under ridge) and bottom of cylinder—difference is amount of taper.

Wards finest quality Ventilated Segment Ring Set restore like-new power and economy even on tapered cylinders. Equal in quality and construction the best nationally advertised ring sets selling $10 to $15. Each ring is specially coated to wear during break-in. **Set consists of:**

One Plain Compression Ring for the top groove
One Scraper Expander Ring for the second groove
One Segment Expander Ring with Steel Spacer for the third groove.

For pistons using 4 rings, the 4th is an extra oil control type which gives you correct oil control. Only the finest Swedish Steel is used in Wards segments. All rings except plain compression type have spring steel expanders. Instructions and chart included. Average ship. wt. set 2 lbs. Art. Nos. marked "61" **shipped from** stock in Standard to .019 oversize; .020 to .060 oversizes and Art. Nos. marked "M261" are shipped from Factory stock near Grand Rapids, Mich., usually in 3 extra days.

Sold in Sets from Table Below

Fits Cars and Trucks Unless Stated	Motor Guard Multiple Segment	Set	Motor Guard Ventilated Segment	Set	Supreme Qual. Segment With Steel Spacer	Set
BUICK, 6, 116—1929	61 A 6234	$2.29	61 A 6155	$2.95	61 A 7311	$3.95
8, 40 Series 1934–36; 60, 1934–35	M261 A 6460	3.95	M261 A 6186	5.95	M261 A 7323	6.95
8, 40 Series 1937	M261 A 6461	3.95	M261 A 6187	5.95	M261 A 7324	6.95
CHEV. 4, 1929 (3½ in. Rings)	M261 A 6239	1.59	M261 A 6162	2.19	M261 A 7318	2.79
6, 1929–32 (3½ in. Rings)	61 A 6240	2.29	61 A 6153	2.95	61 A 7310	3.95
6, 1933- All (3½ in. Comp. 3/16 in. Oil)	M261 A 6241	2.29	M261 A 6154	2.95	M261 A 7336	3.95
6, 1934 All	61 A 6234	2.29	61 A 6155	2.95	61 A 7311	3.95
6, 1935–36 All	61 A 6242	2.29	61 A 6156	2.95	61 A 7312	3.95
6, 1937–41	61 A 6248	2.29	61 A 6157	2.95	61 A 7313	3.95
CHRYSLER 4, 1925–28	M261 A 6243	1.59	M261 A 6163	2.19	M261 A 7319	2.79
6, 1928–40; DeSoto 6, 1935–40	M261 A 6462	2.95	M261 A 6188	3.95	M261 A 7325	4.95
DODGE 6, All 1935–40 Pass. Only	M261 A 6249	2.95	M261 A 6160	3.95	M261 A 7335	4.95
Truck 1935–40 (3⅝ in.) Ex. MH	M261 A 6462	2.95	M261 A 6188	3.95	M261 A 7322	4.95
FORD T-TT (8 Comp., 4 Seg.) 1909–27	M261 A 6235	1.29				
A-AA, B-BB 1929–34 (3½ in. Oil)	61 A 6236	1.59	61 A 6150	2.19	61 A 7314	2.79
V-8, 1932–33 and 85 h.p. cars with Steel Pistons 1937 41	61 A 6237	2.95	61 A 6151	3.95	61 A 7315	4.95
V-8 1934–36; and 85 h.p. Trucks with Alum. Pistons 1937–41	61 A 6237	2.95	61 A 6152	3.95	61 A 7316	4.95
V-8, 1937–40 Fits 60 h.p. Engine	M261 A 6247	2.95	M261 A 6164	3.95	M261 A 7321	4.95

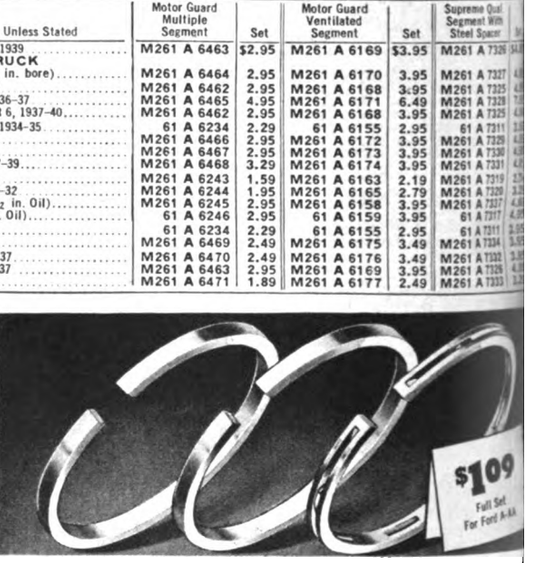
Fits Cars and Trucks Unless Stated	Motor Guard Multiple Segment	Set	Motor Guard Ventilated Segment	Set	Supreme Qual. Segment With Steel Spacer	Set
HUDSON 6, 1935 to early 1939	M261 A 6463	$2.95	M261 A 6169	$3.95	M261 A 7326	3.95
INTERNATIONAL TRUCK						
HD, CI, DI, 1933–41 (3 5/16 in. bore)	M261 A 6464	2.95	M261 A 6170	3.95	M261 A 7327	4.95
LAFAYETTE 6, 1937–40	M261 A 6462	2.95	M261 A 6168	3.95	M261 A 7325	4.95
LINCOLN ZEPHYR 1936–37	M261 A 6465	4.95	M261 A 6171	6.49	M261 A 7328	8.95
NASH AMBASSADOR 6, 1937–40	M261 A 6462	2.95	M261 A 6168	3.95	M261 A 7325	4.95
OLDSMOBILE 6, 1932, 1934–35	61 A 6234	2.29	61 A 6155	2.95	61 A 7311	3.95
6, 1936	M261 A 6466	2.95	M261 A 6172	3.95	M261 A 7329	4.95
6, 1937–38	M261 A 6467	2.95	M261 A 6173	3.95	M261 A 7330	4.95
PACKARD 8, 120-C, 1937–39	M261 A 6468	3.29	M261 A 6174	3.95	M261 A 7331	4.95
PLYMOUTH 4, 1928–30	M261 A 6243	1.59	M261 A 6163	2.19	M261 A 7319	2.79
(Floating Power) Late 1931–32	M261 A 6244	1.95	M261 A 6165	2.79	M261 A 7320	3.95
6, 1933 Early 34 (1/8 and 5/32 in. Oil)	M261 A 6245	2.95	M261 A 6158	3.95	M261 A 7327	4.95
6, Late 1934–40 (All 5/32 in. Oil)	61 A 6246	2.95	61 A 6159	3.95	61 A 7317	4.95
PONTIAC 6, 1932	61 A 6234	2.29	61 A 6155	2.95	61 A 7311	3.95
6, 1937–38	M261 A 6469	2.49	M261 A 6175	3.49	M261 A 7334	3.95
STUDEBAKER 6, 1934–37	M261 A 6470	2.49	M261 A 6176	3.49	M261 A 7332	3.95
TERRAPLANE 6, 1935–37	M261 A 6463	2.95	M261 A 6169	3.95	M261 A 7326	3.95
WILLYS 4, 1933–39	M261 A 6471	1.89	M261 A 6177	2.49	M261 A 7333	3.29



Regular Type Piston Rings

For .005 or Less Cylinder Wall Taper

These Same Quality Rings Sell Under Their Nationally Advertised Names for Twice Wards Prices. For use only when cylinder wall taper is less than .005 or when cylinders are being rebored. To get cylinder wall taper take micrometer measurement at top of cylinder (under ridge) and bottom of cylinder—difference is amount of taper.



Wards Supreme Quality Regular Type Ring Sets

Same quality as nationally advertised Ring Sets sold at up to 40% more than Wards prices. Sets consist of 1 grooved compression ring, 1 scraper compression ring and 1 double oil control ring (2 for 4-ring pistons) for each piston.

Grooved compression ring has center oil groove to lubricate upper cylinder. Scraper compression ring has scraper edge to feed excess oil back to crankcase 30% faster than plain type. Oil ring is the double oil control type—checks excessive oil loss at high speeds. With gap gauge, instructions.

Article Nos. marked "61" **Shipped from** Stock in Standard, .010, .020 oversizes; .030 to .060 and those "M261" from Factory near Grand Rapids, Mich., usually in 3 extra days. **State Size.** Shipping weight set 1 pound 8 ounces.

Fits Cars, Trucks Unless Stated	Article No.	Set
BUICK 6, 116, 1929	61 A 9009	$2.29
8, 40 Series 1934–36; 60 Series 1934–35	M261 A 9050	4.39
8, 40 Series 1937	M261 A 9051	4.39
CHEVROLET 6, 1929–32 (5½ Rings)	61 A 9003	2.25
6, 1933, All (3½ in. Comp. 3/16 in. Oil)	M261 A 9004	2.29
6, 1934, 1935, 1936	61 A 9009	2.29
6, 1937–40	M261 A 9010	2.29
CHRYSLER 6, 1935–40; **De Soto** 6, 1935–40	M261 A 9052	3.89
FORD A-AA (1/8 Oil Rings) 1928	M261 A 9000	1.45
All 4-Cyl. 1928–34 (3½ in. Oil) A-AA, B-BB	61 A 9001	1.45
V-8 1932–40 (85 H.P. Engine)	61 A 9002	2.75
HUDSON 6, 1935 to Early 1939	M261 A 9053	3.89
LAFAYETTE 6, 1937–40	M261 A 9052	3.89
NASH AMB. 6, 1937–40	M261 A 9052	3.89
OLDSMOBILE 6, 1932; 1934–35	61 A 9009	2.29
6, 1936	M261 A 9054	3.89
6, 1937–38	M261 A 9055	3.89
PLYMOUTH 4, 1928 to Early 1931	M261 A 9005	1.49
4, (Floating Power) Late 1931–32	M261 A 9006	1.79
6, 1933 Early 1934 (1/8 and 5/32-in. Oil)	M261 A 9007	2.75
6, Late 1934–40 (All 5/32 Oil)	M261 A 9008	2.75
PONTIAC 6, 1932	61 A 9009	2.29
6, 1937–38	M261 A 9056	2.59
TERRAPLANE 6, 1935–37	M261 A 9053	3.89

Supreme Quality Regular Type Rings Sold Individually

Grooved Compression Ring—with oil groove. **Double Oil Control Ring**—For quick oil drainage. **Scraper Comp. Ring**—Removes excessive oil. Ship. wt. ea. 6 oz.

SEE "HOW TO ORDER" on opposite page	Grooved Comp.	Each	Scraper Comp.	Each	Double Oil	Each
Std. to .005 oversize for cars NOT rebored	61 A 8922	15c	61 A 9060	15c	61 A 8916	19c
.006 to .014 oversize for REBORE cylinders	61 A 8924	15c	61 A 9063	15c	61 A 8919	19c
.015 to .024 oversize for REBORE cylinders	61 A 8927	15c	61 A 8926	15c	61 A 8920	19c
All .030, .040, .050, .060 Oversizes and other ring sizes up to 4½-in. diam. not listed in table above. Shipped from Factory near Grand Rapids, Mich., usually in 3 extra days	M261 A 8925	15c	M261 A 9062	15c	M261 A 8918	19c

ADD PISTON RINGS TO YOUR TIME PAYMENT ORDER

Chances are your Monthly Payments will not be increased. See Inside Back Cover.

WARDS CR&G



19c Ea. **Piston Expanders—Crosswise Type**

Expands piston skirt crosswise of piston pin—restores correct wall pressure, cures piston slap—gives motor new power. A strong tension steel spring, heat treated, unaffected by temperature of the engine. For split skirt pistons only. Special tools, machining or grooving are unnecessary. If you are not sure about piston diameter, State **Make, Year, Model and Motor Number** and mark order "61 A Special." Ship. wt. set of 4, 12 oz.; set of 6, 1 lb.; set of 8, 1 lb. 12 oz.

61 A 8970—Fits Piston Diameters 2 1/16 to 3 in. Each..... 19c
61 A 8971—Fits Piston Diameters 3 1/16 to 3 3/16. Each..... 19c
61 A 8972—Fits Piston Diameters 3 1/2 to 4 1/8. Each..... 19c

Wards Standard Quality Regular Type Piston Ring Sets

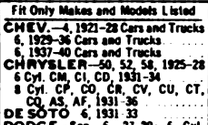
Equals many other Rings selling elsewhere at up to ⅓ more than Wards prices. Sets consist of 2 plain compression rings and 1 (2 for 4-ring Pistons) single slot oil control ring for each piston. Compression rings have turned finish for quick seating. Oil rings have single slot with connecting oil grooves. Gap gauge and instructions included. Art. Nos. marked "61" **Shipped from** Stock in Standard, .010, .020 oversize; .030 to .060 and those marked "M261" from Factory near Grand Rapids, Mich., usually in 3 extra days. **State Size Wanted.** Shipping weight set 2 pounds. If your car or truck is not listed at right, order from individual rings listed by size below.

Fits Cars and Trucks, Unless Otherwise Stated	Article No.
FORD T-TT 1909–27	61 A 9034
A-AA 1928 (1/8 oil rings)	M261 A 9035
A-AA, B-BB, 1929–34 (5/32 oil)	61 A 9036
V-8, 1932–40 (85 H.P. Engine)	M261 A 9037
CHEVROLET 4, 1914–27 (3/16 rings)	61 A 9038
4, 1928 (5/32 rings)	61 A 9039
6, 1929–32 (5/32 in. Comp. 3/16 in. Oil)	61 A 9040
6, 1933, All Models (3/16 oil)	M261 A 9041
6, 1934–36	M261 A 9047
PLYMOUTH	
6, 1933 early 1934 (1/8 and 5/32 Oil Rings)	M261 A 9045
6, late 1934–40 (All 5/32 Oil Rings)	M261 A 9046

Standard Quality Regular Rings Sold Individually

Plain Compression—Turned finish for quick seating. **Single Oil Control**—Single slot type with groove. Ship. wt. each 6 oz. See "How To Order" on opposite page.

SEE "HOW TO ORDER" on opposite page	Plain Compression	Each	Single Oil Control	Each
Std. to .005 oversize for cars NOT rebored	61 A 9030	9c	61 A 9032	15c
.006 to .014 oversize for REBORE cylinders	61 A 9027	9c	61 A 9028	15c
.015 to .024 oversize for REBORE cylinders	61 A 8914	9c	61 A 8915	15c
All .030, .040, .050, .060 Oversize and other ring sizes up to 4½-in. diam. not listed in table above. Shipped from Factory near Grand Rapids, Mich., usually in 3 extra days	M261 A 9029	9c	M261 A 9042	15c



WARDS SUPREME QUALITY PISTON PINS—Exact Replacements

Exact duplicates of original equipment. Made of best special analysis steel—heat treated—precision ground to exact size—lapped finish—checked for hardness. **State Standard or Oversize Wanted.** Furnished in Standard, .003, .005 and .010 oversizes. Ship. wt. ea. 8 oz.

Fit Only Makes and Models Listed	Art. No.	Ea.	Fit Only Makes and Models Listed	Art. No.	Ea.
CHEV.—4, 1921–28 Cars and Trucks	61 A 5653	19c	**FORD**—V-8, 85 H.P. 1937–40 All	61 A 6041	18c
6, 1929–36 Cars and Trucks	61 A 5663	21c	V-8, 60 H.P. 1937–40 Cars and Trucks	61 A 6042	18c
6, 1937–40 Cars and Trucks	61 A 6040	21c	V-8, 95 H.P. Trucks 1939–40	61 A 6044	19c
CHRYSLER—50, 52, 58, 1925–28	61 A 5609	21c	**HUDSON**—6 and 8, 1932–40	61 A 5507	19c
6 Cyl. CM, CI, CD, 1931–34	61 A 5510	27c	**MERCURY**, 8 Cyl. 1939–40	61 A 6044	19c
8 Cyl. CP, CO, CR, CV, CU, CT, CQ, AS, AF, 1931–36	61 A 5510	27c	**OLDS.**—F, 6-Cyl. 1928–32	61 A 5504	25c
DE SOTO 6, 1931–33	61 A 5510	27c	6 Cyl. F33, 34, 35, 36, 1933–36	61 A 5511	25c
DODGE Sen. 6, 27–29. 6 Cyl. DN, DL, DK, DO, DR, DS, DU, D2, D14, D17 –1930 4U	61 A 5510	27c	6 cyl. 1937–38	61 A 6047	23c
6, DP, 1933	61 A 5506	21c	8 cyl 1937–38	61 A 6048	23c
ESSEX 6 Late 1925–30	61 A 5658	15c	**PLYMOUTH**—4, 1928–32	61 A 5809	21c
FORD T, TT, 1909–27, Cars, Trucks	61 A 5650	17c	6, 1933–40	61 A 5506	21c
A-AA, B-BB, 1928–34 Cars and Trucks	61 A 5651	21c	**PONTIAC**—6, 1926–28	61 A 5654	23c
**A-AA, B-BB, 1928–34 Cars and Trucks	61 A 5509	21c	Big 6, 1929–31 (Plug Type Only—no set screw)	61 A 5505	32c
V-8, 1932–36 Cars, Trucks	61 A 5503	18c	6 cyl. 1935–38	61 A 6045	23c
**V-8, 1932–36 Cars and Trucks	61 A 6043	18c	8 cyl. 1933–38	61 A 6046	23c
			TERRAPLANE—6, 1933–38	61 A 5507	19c

When oversize pins are installed, ream rod bushings [illegible] marked (-.003) are Piston Type Pins for Pistons that are Grooved for Lock Rings.

Pins for Other Cars—M261 A 5512—Piston Pins to .015 Oversize for All Other Cars and trucks not listed above. Specify year, model, motor no. and oversize wanted. Ship. wt. ea. 6 oz. Each.....

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Wards Supreme Quality Flexible Expander Piston Ring Sets

ONLY where cylinder wall taper is from .005 to .010 (where cylinders are not being rebored. To get cylinder taper take micrometer measurement at top of cylinder (under ridge) and bottom of cylinder—difference is taper.

quality Rings as sold at more than twice Wards prices a nationally advertised name. Sets include: 1 Grooved ression Ring that gives high compression plus improved ation; 1 Scraper Expander Ring and 1 Wide Slot Oil Ring (4-ring pistons) which returns oil quickly to crankcase. ags—except grooved compression ring—have spring steel expanders to keep them in close contact with wall—aims compression and oil seal longer. Gap gauge and ictions included. Article Nos. marked "61" shipped Stock in Std. to .009 oversize; .010 to .060 and those et M261 shipped from Factory near Grand Rapids, usually in 4 extra days. State Size. Ship. wt. set 2 lbs.

ndividual Supreme Quality Flexible Expander Piston order from Individual listings below.

Fit Cars, Trucks Unless Stated	Article No.	Set
CK 8, 40, 1934-36, 60, 1934-35	M261 A 0275	$5.49
60 Series, 1937	M261 A 0276	5.49
EV. 4, 1914-27 (3 1/16 in.)	M261 A 0251	2.25
1928 (3/32 Rings)	M261 A 0252	2.25
1929-32 (3/32 Rings)	61 A 0253	3.39
1933, All (3/16 Oil)	M261 A 0254	3.39
1934	M261 A 0274	3.39
1935-36	61 A 0250	3.39
1937-41	M261 A 0273	3.39
RSYLER 4, 50, 52, 58, 1925-28	M261 A 0255	2.25
1935-40	M261 A 0277	4.95
SOTO 6, 1935-40	M261 A 0277	4.95
DGE 4, 1923-27	M261 A 0256	2.79
Std. 28-29, DA, DB Sen. 29	M261 A 0257	4.95
DP, 1933-34	M261 A 0258	4.95
1935-40 Pass. Car only	M261 A 0276	4.95
ck 1935-40 (3 3/16") Exc. MH	M261 A 0277	4.95
EX 6, 1925-28	M261 A 0259	3.39
1929	M261 A 0260	3.39
1930	M261 A 0261	4.95
1931	M261 A 0262	4.95
1932	M261 A 0267	4.95
ID T-TT, 1909-27	M201 A 0263	2.25
A, 1928 (1/16 in Oil)	M261 A 0264	2.25
A, B-BB, 1929-34 (3/32 in Oil)	61 A 0265	2.25
1932-41 (85 H P Engine)	61 A 0266	3.95
SON 6, 1933	M261 A 0267	4.95
935 to early 1939	M261 A 0279	4.95
ERNAT'L TRUCK (3 1/16 in.) 1933-41	M261 A 0280	3.95
AYETTE 6, 1937-40	M261 A 0277	4.95
OLN ZEPHYR 1936-37	M261 A 0281	5.95
H AMB. 6, 1937-40	M261 A 0277	4.95
SMOBILE 6, 1932, 1934-Early 1935	M261 A 0274	3.39
936	M261 A 0282	4.95
937-38	M261 A 0283	4.95
CKARD 8, 120 C, 1937-39	M261 A 0284	3.95
'MOUTH 4, 1928 to early 1931	M261 A 0255	2.25
ate 1931-32 (FI Power)	M261 A 0269	3.25
933, early 1934 (3/16, 3/32 Oil)	M261 A 0270	4.95
ate 1934-40 (All 3/32 Oil)	M261 A 0271	4.95
IT TAC 6, 1926-28	M261 A 0268	3.39
929-31	M261 A 0272	3.39
932	M261 A 0274	3.39
937-38	M261 A 0285	3.39
IDEBAKER 6, 1934-37	M261 A 0286	3.39
RAPLANE 6, 1932-33	M261 A 0267	4.95
935-37	M261 A 0279	4.95
LYS 4, 1933-39	M261 A 0287	3.25

reme Flexible Expander Rings Sold Individually

ved Compression Ring. Center Oil groove lubricates cylinder wall and piston—provides a cooler running r. **Scraper Expander Compression Ring.** Provides best ression seal. **Flexible Wide Slot Oil Ring.** Wide venti- slot gives most rapid oil drainage—cuts oil loss at high a. Ship. wt. ea. 4 oz. See "How to Order" below.

dard to .009 oversize for Cars NOT rebored.
8922—Grooved Compression Ring. Each.....15c
8007—Flexible Scraper Compression Ring. Each.....19c
8004—Flexible Wide Slot Oil Ring. Each.....25c

to .019 oversize for REBORED cylinders.
8924—Grooved Compression Ring. Each.....15c
8008—Flexible Scraper Compression Ring. Each.....19c
8005—Flexible Wide Slot Oil Ring. Each.....25c

020, .030, .040, .050, .060 Oversize and other ring sizes e 4½-in. diam. not listed in table above. Shipped Factory near Grand Rapids, Michigan in 4 days.
A 8925—Grooved Compression Ring. Each.....15c
A 8009—Flexible Scraper Compression Ring. Each..19c
A 8006—Flexible Wide Slot Oil Ring. Each.....25c

HOW TO ORDER Individual Rings

e help us fill your order correctly by giving the following mation when ordering. (See your state license card):
1. Make of Car.
2. Year and Model.
3. Motor Number.
4. Number of Cylinders.
5. Oversize Wanted.
6. Width of Ring Grooves.

How to Select the Proper Oversize

to .005 (or Std. to .009) oversize is for cylinders that have been rebored. **LARGER OVERSIZES** are for cylinders HAVE been rebored. Check for rebore oversize with- ometer by measuring at bottom of cylinder.

RING SIZES WE CARRY IN STOCK

dard to .020 oversizes. Shipped from Stock—larger over- Shipped from Factory near Grand Rapids, Michigan lly in 4 extra days.

3 x 1/32	*3 1/16 x 3/16	*3 1/16 x 3/16	†3 3/16 x 1/8
3 x 1/16	†3 1/16 x 3/32	3 1/16 x 1/8	*3 3/16 x 5/16
3 x 1/16	3/16 x 1/8	*3 1/16 x 3/32	†3 1/32 x 1/8
3 1/16 x 3/32	*3 1/16 x 3/32	†3 1/16 x 1/8	*3 1/32 x 5/16
	†3 1/16 x 3/16	*3 1/16 x 3/32	
	*3 1/16 x 3/16		

Types Only. †Compression Types Only.

For Other Sizes and Oversizes

ou want a size not listed above or larger oversize we can ish up to 4½-in. diameter. See listing under type of ring.



CHECKED AND TESTED BY EXPERTS!



Six-Ton Tensile Strength Test. Extra Hard Virgin Aluminum Stands Twice the Load Necessary.



Precision Grinding and Grooving. Finished to within 1/1000 in. Accuracy for Perfect Fit.



Eagle-eyed Inspectors Check Every Piston—Slightest Imperfection Returns It to Melting Pot.



Latest Types—Reinforcing Flanges in Pistons Carry Heat Out of Piston Head Faster—Save Oil, Gas.

SEE WHAT YOU SAVE!

Piston with Pin	Dealer Price	Wards Price	You Save
Ford A-AA, 1928-31	$2.85	$1.19	$1.66
Chev. 6, 1929-36	2.20	1.15	1.05
Dodge 6, 1933-40	4.14	2.39	1.75
Plymouth 6, 1933-40	3.23	1.95	1.28

New pistons will restore new motor power and pep to your old motor.

PERFECT FIT PISTONS

SAME QUALITY AS USED IN NEW CARS

Made on the same production line as Pistons for 4 of America's most popular cars. Meet all S.A.E. standards. Machined for perfect fit. Furnished in Standard or Oversizes. With fitted Piston Pins. Use Wards Credit Plan to put in a new set of pistons now. Your savings on gas and oil will help make your monthly payments.

Aluminum Pistons—Made from special analysis alloyed virgin aluminum—all new materials—Wards use no reclaimed metals. Brinnel tested (for hardness). Machined to a high degree of accuracy. Include new 1940-41 improvements in design and construction. Cam (oval) ground where necessary to match originals. Satisfactorily replaces all steel-insert strut original equipment type pistons.

Cast Iron Pistons—Close-grained, chrome-nickel alloyed iron—a special analysis iron properly compounded for long wear.

SHIPPING INFORMATION FOR WARDS PISTONS:

Pistons marked (*) Shipped from Stock in Std., .0025, .005, .010, and .020 oversizes. All other Cast Iron Pistons Shipped from Stock in Factory near Milwaukee, Wis.; All other Aluminum Pistons Shipped from Stock in Factory in St. Louis, Mo., usually in 6 extra days. Average ship. wt. each: Iron 3 lbs.; Aluminum 2 lbs.

IF YOUR CAR OR TRUCK IS NOT LISTED—We can still supply pistons. Write for prices—give information as requested at right. For Tractor Pistons see Page 1150.

Fit Only These Makes and Models of Cars and Trucks	Year	Type	Number and Width of Rings: Comp.	Number and Width of Rings: Oil	Article Number	Pistons, Each: Without Rings	Pistons, Each: With Stand. Rings	Pistons, Each: With Supreme Rings
FORD T-TT	1909-27	Iron	2 1/8	1 1/8	M261 A8430	95c	$1.20	$1.32
A-AA, B-BB	1928-34	Alum.	2 1/8	1 5/32	*61 A7510	$1.19	1.44	1.56
V-8, 85 H P	1932-36	Alum.	2 5/32	1 5/32	*61 A7540	1.10	1.35	1.47
V-8, 85 H P	1937-40	Alum.	2 5/32	1 5/32	M261 A7534	1.29	1.52	1.70
V-8, 60 H P	1937-40	Alum.	2 5/32	1 5/32	M261 A7533	1.25	1.48	1.65
CHEVROLET								
4-Cyl. Cars, Trucks	1919-28	Iron	2 3/16	1 3/16	M261 A8419	1.15	1.40	1.52
4-Cyl. Cars, Trucks	1919-28	Alum.	2 5/32	1 5/32	M261 A7500	1.79	2.04	2.16
6-Cyl. Cars, Trucks	1929-32	Iron	2 5/32	1 5/32	M261 A8520	1.15	1.39	1.53
6-Cyl. Cars, Trucks	1933-36	Iron	2 1/8	1 3/16	*61 A8426	1.15	1.39	1.53
6-Cyl. Cars, Trucks	1929-36	Alum.	2 1/8	1 3/16	*61 A7543	1.39	1.64	1.77
6-Cyl. Cars, Trucks	1937-40	Iron	2 1/8	1 3/16	M261 A7586	1.19	1.44	1.57
6-Cyl. Cars, Trucks	1937-40	Alum.	2 1/8	1 3/16	M261 A7521	1.59	1.84	1.97
PLYMOUTH								
4-Cyl. (4 ring)	1928-32	Alum.	3 1/16	1 5/32	M261 A7536	1.89	2.17	2.34
6-Cyl. ("T" slot)	1933-40	Alum.	2 1/8	2 5/32	*61 A7542	1.95	2.28	2.40
6-Cyl. ("U" slot)	1933-40	Alum.	2 1/8	2 5/32	M261 A7535	1.95	2.28	2.40
CHRYSLER								
4, 50, 52, 58	1925-28	Alum.	3 1/16	1 5/32	M261 A7536	1.89	2.17	2.34
6, 60-62	1924-28	Alum.	3 1/16	1 5/32	M261 A7503	2.25	2.60	2.75
70, 65, 66, CI 6	1926-31	Alum.	3 1/16	1 5/32	M261 A7502	1.98	2.26	2.36
Late 70, 77	1929-31	Alum.	3 1/16	1 5/32	M261 A7546	2.29	2.59	2.79
CD, 8-Cyl. (3 1/16" Diam.)	1931	Alum.	2 1/8	2 5/32	*61 A7542	1.95	2.28	2.40
6, CI, CM, 8, CD, CP	1931-32	Alum.	2 1/8	2 5/32	M261 A7548	2.29	2.69	2.84
CO, 6-Cyl.	1933	Alum.	2 1/8	2 5/32	M261 A7545	2.39	2.74	2.94
CO, CV, Royal, Std., Imp., Air-Stream, Air-Flow 8-Cyl.	1933-40	Alum.	2 1/8	2 5/32	M261 A7545	2.39	2.74	2.94
6, CA, CB Air Stream	1934-40	Alum.	2 1/8	2 5/32	M261 A7526	2.10	2.50	2.65
DE SOTO								
6-Cyl. Model K	1928-30	Alum.	3 1/16	1 3/16	M261 A7503	2.25	2.60	2.75
CK, Flner 6	1930	Alum.	3 1/16	1 5/32	M261 A7502	1.98	2.26	2.36
SA, 6-Cyl.	1931	Alum.	3 1/16	1 5/32	M261 A7547	2.39	2.69	2.89
SC 6-Cyl.	1932	Alum.	3 1/16	1 5/32	M261 A7549	2.39	2.69	2.89
SD 6-Cyl.	1933	Alum.	2 1/8	2 5/32	M261 A7548	2.29	2.69	2.84
Air Stream and Air Flow 6-Cyl.	1934-40	Alum.	2 1/8	2 5/32	M261 A7526	2.10	2.50	2.65
DODGE								
4, Cars, Trucks	1915-28	Alum.	3 1/16	1 5/32	M261 A7505	2.10	2.45	2.60
4, Cars, Trucks	1915-28	Iron	2 3/16	1 3/16	M261 A8434	1.69	2.05	2.20
DA 6, Late Senior 6, Vic. and Std., 130, 131, 140, 141	1928-30	Alum.	3 1/16	1 3/32	M261 A7546	2.29	2.59	2.79
DD, 6-Cyl.	1930-31	Alum.	3 1/16	1 5/32	M261 A7502	1.98	2.26	2.36
DH, Early DL, 6-Cyl.	1931-32	Alum.	3 1/16	1 5/32	M261 A7549	2.39	2.69	2.89
DK, DO, 8-Cyl.	1931-32	Alum.	3 1/16	1 5/32	M261 A7549	2.39	2.69	2.89

HOW TO ORDER PISTONS

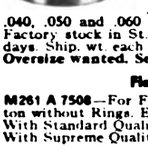
1. Take exact micrometer measurement of cylinder hole at bottom of bore and state "Standard" size or the "Oversize" you want. If you are having your cylinders rebored or rehoned always rebore or rehone to the next regular oversize (.010, .020, .030, etc.) and order Pistons of exactly the same oversize. ***Do not allow for clearance as Wards Pistons are ground to provide this clearance. All Pistons for Cars Listed Below furnished in***—Standard Size; Oversizes, .0025 (2½ thousandths); .005, .010, .015, .020, .030, .040, .050, .060 and larger. If larger than .060 is wanted mark order "M261 A Special Order" and allow 6 days extra for shipping. Oversizes Shipped from Factory at same price.

2. ***Give This Information from State License Card: Make, Year, Model of Car or Truck; Engine No.; No. of Cylinders.***

3. ***Wards Pistons are Available in the Following Choices:***
(A) WITHOUT Rings.
(B) WITH Standard Quality Regular Rings (Single Slot Oil and Regular Compression Rings, on facing page).
(C) WITH Supreme Quality Regular Rings (Double Oil Control, Grooved and Scraper Compression on facing page).

Fit Only These Makes and Models of Cars and Trucks	Year	Type	Number and Width of Rings: Comp.	Number and Width of Rings: Oil	Article Number	Pistons, Each: Without Rings	Pistons, Each: With Stand. Rings	Pistons, Each: With Supreme Rings
DODGE Late DL, DR, DS, DU, D2, D5, 6-Cyl.	1932-40	Alum.	2 1/8	2 5/32	M261 A7548	$2.39	$2.69	$2.84
DP, 6-Cyl.	1933	Alum.	2 1/8	2 5/32	*61 A7542	1.95	2.28	2.40
ESSEX 6-Cyl.	1924-28	Alum.	2 1/8	1 1/8	M261 A7507	95c	1.22	1.33
6 Cyl. (4 ring)	1929-30	Alum.	2 1/8	2 1/8	M261 A7530	$1.69	1.97	2.05
Super Six	1931	Alum.	2 3/32	1 3/16	M261 A7531	1.49	1.89	2.05
GMC TRUCK T-18, T-23	1933-36	Iron	2 1/8	1 3/16	M261 A7591	1.95	2.18	2.35
HUDSON Great 8	1930	Alum.	2 1/8	2 1/8	M261 A7530	1.69	1.97	2.05
Greater 8	1931	Alum.	2 3/32	1 3/16	M261 A7531	1.49	1.89	2.05
6-Cyl. E	1933	Alum.	2 3/32	1 3/16	M261 A7537	1.59	1.98	2.15
All 6-8-Cyl. with 3 inch Pistons	1932-40	Alum.	2 3/32	1 1/8	M261 A7517	1.79	2.14	2.45
INTERN'T'L TRUCK C1, D1, D2	1933-38	Iron	2 3/32	1 3/16	M261 A7590	1.59	1.89	2.08
LINCOLN-ZEPHYR	1936-39	Alum.	2 3/32	1 3/16	M261 A7520	1.69	1.92	2.10
OLDSMOBILE F28, F29, F30, F31	1928-31	Iron	2 1/8	1 3/16	M261 A8472	1.79	2.07	2.17
F32, F34, F35	1932-35	Iron	2 1/8	1 3/16	M261 A8412	1.98	2.20	2.39
6, All Models	1937-40	Alum.	2 1/8	2 5/32	M261 A7522	2.10	2.45	2.60
8, All Models	1937-40	Alum.	2 1/8	2 5/32	M261 A7523	2.10	2.45	2.60
MERCURY V-8	1939-40	Alum.	2 3/32	1 5/32	M261 A7519	1.29	1.52	1.70
PONTIAC 6-Cyl.	1926-28	Iron	2 3/16	1 3/16	M261 A8458	1.45	1.73	1.83
6-Cyl. All Models	1929-31	Iron	2 3/16	1 3/16	M261 A8474	1.59	1.87	1.97
6-Cyl. All Models	1935	Iron	2 1/8	1 3/16	M261 A8437	2.19	2.55	2.69
6-Cyl. 8A, 8B	1936	Iron	2 1/8	1 3/16	M261 A7587	2.19	2.47	2.57
6-Cyl. CA, DA	1937-38	Iron	2 1/8	1 3/16	M261 A7588	2.19	2.47	2.57
REO Mate, Flying Cloud, Wolverine, 15, DA, DC	1928-30	Alum.	3 1/16	1 5/32	M261 A7546	2.29	2.59	2.79
STUDEBAKER Dictator 6, Ser. A	1934-37	Alum.	2 1/8	1 3/16	M261 A7518	2.29	2.52	2.69
TERRAPLANE 6-cyl. K, KU, KT	1932-33	Alum.	2 1/8	1 3/16	M261 A7537	1.59	1.98	2.15
6-8-cyl.	1934-39	Alum.	2 3/32	2 3/16	M261 A7517	1.79	2.14	2.45
WHIPPET 96 to car 155,457	1926-28	Iron	2 1/8	1 1/8	M261 A8503	1.39	1.62	1.80
96 4-cyl. after 155, 457, 98-98A, 6-cyl.	1928-30	Iron	2 1/8	1 5/32	M261 A8532	1.29	1.57	1.67
WILLYS 97, 98B, 98D, 6-cyl.	1930-31	Iron	2 1/8	1 3/16	M261 A8538	1.49	1.72	1.90
77, 4-cyl.	1933-35	Iron	2 1/8	1 3/16	M261 A8539	1.49	1.79	1.98
37, 4-cyl.	1937-38	Iron	2 3/32	1 3/16	M261 A7589	1.75	2.05	2.25

New Special Value Pistons



For FORD V-8

69c ea. Without Rings

New Aluminum Alloy Reinforced type 3-ring pistons, with split skirt at ½ usual prices elsewhere. Like most original equipment. With Piston pin fitted. Furnished in Standard, .0025, .005, .010, .020, .030, .040, .050 and .060 oversizes and **Shipped from** Factory stock in St. Louis, Mo., usually in 6 extra days. Ship. wt. each 1 lb. **State Standard size or Oversize wanted. See "How to Order" above.**

Flat Head Type

M261 A 7508—For Ford V-8, 1932-36, 85 H.P. Piston without Rings. Each.....69c
With Standard Quality Regular Rings. Each..94c
With Supreme Quality Regular Rings. Each..$1.04

Dome Head Type

M261 A 7509—Ford V-8, 1937-40, 85 H.P. Piston without Rings. Each.....79c
With Standard Quality Regular Rings. Each..$1.04
With Supreme Quality Regular Rings. Each..1.14

Improved Type 4-Ring Pistons for Fords



- ½ Inch Longer Than Original—Lessens Piston Rock.
- 4 Rings—1 Extra Compression Ring Gives Better Seal!

Aluminum Alloy. With pin fitted. Install only in sets—three ⅛-in. compression grooves, one 5/32-in. oil groove. Furnished from stock in Std. .0025, .005, .010, and .020 oversize. Also in .030, .040, .050, .060 and larger oversizes **Shipped from Factory** in St. Louis, Mo., usually in 6 days. Wt. 2 lbs. **State Std. or Oversize. See "How to Order" above.**

61A7515—For Ford A-AA 1928-31 cars and trucks. $1.39
Piston without Rings. Each.....
Piston with Standard Quality Rings. Each.....1.69
Piston with Supreme Quality Rings. Each.....1.94

Super Oil Control Type for V-8 Ford Cars, Trucks

New 4-ring Piston with extra oil ring below pin—gives super oil control. Aluminum alloy reinforced type. Two 5/32-in. compression grooves, two 5/32-in. oil grooves. With pin. **State size**—Std., .0025, .005, .010, .020, .030, .040, .050, .060 or larger oversizes. **Shipped from Factory** in St. Louis, Mo., usually in 6 extra days. **See "How to Order."** Ship. wt. 2 lbs.

Flat Head Type

M261A7513—For Ford V-8, 85, 1932-36 $1.20
Piston without Rings. Each.....
Piston with Standard Quality Rings. Ea. 1.57
Piston with Supreme Quality Rings. Ea. 1.72

Dome Head Type

M261A7514—For Ford V-8, 85, 1937-40 $1.29
Piston without Rings. Each.....
Piston with Standard Quality Rings. Ea. 1.66
Piston with Supreme Quality Rings. Ea. 1.80

M261 A 7512—**Dome Head Type** For Ford V-8, 60H.P. 1937-40.
Without Rings. Each..... $1.29
With Std. Qual. Rings. Ea. $1.66; With Supreme Qual. Rings. Ea. 1.80

Motor Parts

Add the Repair Parts you need to your Time Payment Order and Pay as You Ride

See Details on Inside Back Cover

NO FINER MOTOR BEARINGS MADE

Fully Tested for Perfect Fit and Long Life





Bearing Shells Chemically Treated for Perfect Bond with Alloy.



Bearing Shell is Whirled During Babbitt Pour—Makes Better Bond.



All Bearing Seats Tested to .0025 Tolerance—Assures Perfect Fit.



Rods Rebabbited with Best A… and Bonded to Pure Ti…

SEE WHAT YOU SAVE!

CONN. ROD BEARING			MAIN BEARINGS		
MAKE OF CAR	DEALER PRICE	WARDS PRICE	FRONT MAIN FOR	DEALER PRICE	W… PR…
*Chev. 1933-34	$1.75	54¢	Chev. 1933-36	$1.50	8…
Dodge 1934-40	$1.10	49¢	Dodge 1934-40	$1.53	8…
Ford V-8	$1.90	89¢	Ford V-8	$ .80	5…
Plymouth 1933-40	$1.10	35¢	Plymouth 1933-40	$1.43	8…

*Complete rebuilt connecting rod exchange price

35c Pr. AND UP — Connecting Rod and Main Insert Bearings . . . Save up to ½

Stop bearing oil leaks and noise. For connecting rods and crankshaft main bearings. Duplicate original in size, tolerances and material. Made by a nationally known manufacturer. Furnished in pairs, upper and lower. ‡also fit 1932-36; †Also fit 1937-38. *Require .010 undersize in some cars. Av. wt. pr. 2 oz. to 1 lb. 2 oz. *For Pass. Cars Unless Stated.*

Priced Per Pair Fit Only Models Listed	Connecting Rod Standard Size	Connecting Rod .001 Undersize	Connecting Rod .002 Undersize	Front Main Standard Size	Center Main Standard Size	Intermediate Standard Size	Rear Main Standard Size
CHEV. 4, 1925-27 Cars, Trucks 1928, 4-cyl. Cars, Trucks	See Connecting Rods at Right	See Connecting Rods at Right	See Connecting Rods at Right	61 A5639 98c 61 A5670 95c	61 A5640 $1.29 61 A5640 1.29	(Located in front of rear main bearing)	61 A5641 $1.19 61 A5641 1.19
1929-31, 6-cyl. Cars, Trucks	Rods at Right	Rods at Right	Rods at Right	61 A5613 $1.05	61 A5612 1.35		61 A5611 1.10
1932, 6-cyl. Cars, Trucks	Rods at Right	Rods at Right	Rods at Right	61 A5784 85c	61 A5671 1.35		61 A5786 95c
1933-36, 6-cyl. Cars, Trucks	Rods at Right	Rods at Right	Rods at Right	61 A5784 85c	61 A5785 1.35		61 A5786 95c
1937-39, 6-cyl. Cars, Trucks	Rods at Right	Rods at Right	Rods at Right	61 A6120 $1.05	61 A6121 1.05	61 A6122 $1.29	61 A6123 $1.35
1940-41, 6 Cyl. Cars, Trucks	Rods at Right	Rods at Right	Rods at Right	61 A6120 1.05	61 A6121 1.05	61 A6122 1.29	61 A6118 1.39
CHRYSLER 6, 1934-36	*61 A5775 59c	*61 A5200 55c	*61 A5201 55c	*61 A6100 1.10	*61 A6101 85c	*61 A6101 85c	*61 A6102 2.39
Royal 6, 1937-41	*61 A6124 79c	*61 A5202 79c	*61 A5203 79c	*61 A6125 1.29	*61 A6125 $1.29	*61 A6125 $1.29	*61 A6126 2.19
DESOTO 1934-36, 6-cyl.	*61 A5775 59c	*61 A5200 55c	*61 A5201 55c	*61 A6100 1.10	*61 A6101 85c	*61 A6101 85c	*61 A6102 2.39
1937-41, all 6-cyl. Cars	*61 A6124 79c	*61 A5202 79c	*61 A5203 79c	*61 A6125 1.29	*61 A6125 $1.29	*61 A6125 $1.29	*61 A6126 2.19
DODGE 1933, 6-cyl. Cars	*61 A5772 35c	*61 A5204 39c	*61 A5777 39c	*61 A6103 89c	*61 A6104 89c	*61 A6104 89c	*61 A6105 1.59
1934-41, 6-cyl. Cars	*61 A5774 49c	*61 A5205 55c	*61 A5206 55c	*61 A6106 89c	*61 A6107 89c	*61 A6107 89c	*61 A6108 1.69
1932-41, 6, Truck 3⅛" bore	*61 A5772 35c	*61 A5204 39c	*61 A5777 39c	*61 A6103 89c	*61 A6104 89c	*61 A6104 89c	*61 A6105 1.59
1934-36, 6, Truck 3⅜" bore	*61 A5775 59c	*61 A5200 55c	*61 A5201 55c	*61 A6100 $1.10	*61 A6101 85c	*61 A6101 85c	*61 A6102 2.39
1934-41, 6, Truck 3¼" bore	*61 A5774 49c	*61 A5205 55c	*61 A5206 55c	*61 A6106 89c	*61 A6107 89c	*61 A6107 89c	*61 A6108 1.69
FORD A, 1928-31 A-AA 1932-36, V-8, Steel Babbitt Lined Cars, Trucks	See Conn. Rods at Right †61 A5771 89c	See Conn. Rods at Right †61 A5207 $1.10	See Conn. Rods at Right †61 A5208 $1.10	Bearing Caps for Main Bearings are Listed Below		Bearing Caps for Main Bearings are Listed Below.	
1932-36 V-8 Copper-lead Pass. Cars and Trucks	†61 A5773 95c	†61 A5209 98c	†61 A5210 98c				
1937-38, 85 H.P. Cadmium Lined Cars, Trucks	‡61 A6109 $1.29	‡61 A5211 $1.39	‡61 A5212 $1.39	61 A6110 59c	61 A6110 59c		61 A6112 $1.05
1937-40 60 H.P. Copper-lead Cars, Trucks	61 A5799 95c	61 A5213 1.05	61 A5214 1.05	61 A6113 59c	61 A6113 59c		61 A6114 1.15
1939-41 V-8, 85 Cars, Trucks	61 A6127 $1.29	61 A5215 1.39	61 A5216 1.39	61 A6128 59c	61 A6128 59c		61 A6129 1.39
1939-41 95 H.P. Trucks, Busses	61 A6147 1.29	61 A5217 1.39	61 A5218 1.39	61 A6128 59c	61 A6128 59c		61 A6129 1.39
MERCURY 1939-41 Pass.	61 A6147 1.29	61 A5217 1.39	61 A5218 1.39	61 A6128 59c	61 A6128 59c		61 A6129 1.39
OLDS. 6, 1933-34	61 A5779 49c	61 A5219 55c	61 A5220 55c				
1935-36, 6-cyl.	61 A6119 59c	61 A5221 62c	61 A5222 62c	61 A6130 95c	61 A6131 95c	61 A6132 98c	61 A6133 $1.05
1937-40, 6-cyl.	61 A6134 59c	61 A5223 62c	61 A5224 62c	61 A6135 95c	61 A6136 95c	61 A6137 98c	61 A6138 1.15
PLYMOUTH 6, 1933-41	*61 A5772 35c	*61 A5204 39c	*61 A5777 39c	*61 A6103 89c	*61 A6104 89c	*61 A6104 89c	*61 A6105 1.59
PONTIAC 6, 1935-36	61 A5776 55c	61 A5225 59c	61 A5226 59c	61 A6139 98c	61 A6140 98c	61 A6141 $2.10	61 A6142 1.15
1937-38, 6-cyl.	61 A5792 49c	61 A5227 59c	61 A5228 59c	61 A6143 98c	61 A6144 98c	61 A6145 1.69	61 A6146 1.05
1939-40, 6 Cyl.	61 A5229 69c	61 A5230 75c	61 A5231 75c	61 A5232 98c	61 A5233 98c	61 A5234 1.69	61 A5235 1.19

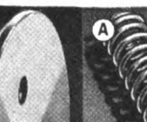
For other undersize or oversize bearings, write for prices. State Make, Year, Model and Engine Numbers with all Letters before and after No. of engine. Write for prices if original bearings are undersized inside diameter.



EXACT REPLACEMENT CRANKSHAFT MAIN BEARING CAPS FOR FORDS

Original forgings fitted with new babbitt bearings. Oil grooves like original.
61 A 3352—1932-36, V-8 (Rear). Ship. wt. 2 lbs. 8 oz. **$1.75**

61 A 3351—1932-36, V-8 (Front or Center). Ship. wt. 1 lb. 8 oz. **95c**
61 A 3302—1928-31, Model A-AA (Rear). Complete with two spacer washers. Ship. wt. 3 lbs. 6 oz. **$1.29**
61 A 3309—1928-31, A-AA (Front or Center). Ship. wt. 14 oz. **59c**



BUSHINGS FOR FORD AND CHEVROLET
Duplicates of originals. Ship. wt. 3 oz. Priced Per

Piston Pin Bushings
61 A 5570—For Chevrolet 1929-36.

Connecting Rod Upper Bushings
61 A3141—Ford 1928-34, A-AA, B-BB. 13c
61 A3315—Ford 1932-40-V-8 85 & 95 H.P.

45c Ea. and up — REBUILT CONNECTING RODS

- **Factory Rebuilt—Tested for Weight, Bearing Size**
- **Meets S.A.E. Standards—Same Quality as Original**

Liberal Allowance for old rods—see price table. Save to 50% on Wards Rebabbitted Connecting Rods. Drop forged carbon. Factory tested for weight, diameter, machining tolerances and oil clea… Fitted with Virgin metal (identical to that of present standard equip… babbitt bearings, accurately broached and finished. Complete with sta… bolts, nuts and shims where originally furnished. **For best results i… connecting rods in complete balanced sets.**

How to Order Rods

Two ways to order:
① Send old rods and exchange price, postage with your order or
② Send full price and return old rods later. You get exchange coupon with rebuilt rods, which we redeem when old rods are returned, Postage Paid, to our nearest Mail Order House.
You pay Postage on returned rods. No allowance if old rods are not for same car as ones ordered—old rods must be in rebuildable condition. Remove pin lock rings or screws from pin end when returning old rods.

Fits Only Cars and Trucks Listed	Article Number	Full Price	Exchang… Price
Chev., 1925-28, 4 cyl.	61 A 5752	62c	No Exch…
1929-31, 6 cyl.	61 A 5766	65c	No Exch…
1932, 6 cyl.	61 A 5762	65c	No Exch…
1933-34, Master, 6 cyl.	61 A 5767	89c	54c
1935-36, 6 cyl.	61 A 5764	95c	60c
1937-40, 6 cyl. 1941 Cars.	61 A 5759	$1.10	60c
Pontiac, 1926-31, 6 cyl.	61 A 5765	1.54	$1.28
Ford, 1932-38, V-8 (Rod Only) (Ex. 60 H.P.)	61 A 3168	1.29	99c
1928-31, A-AA (I-Beam type)	61 A 3169	59c	No Exch…
1909-27, T-TT	61 A 2883	45c	No Exch…

REBUILT RODS FOR OTHER 1928-40 CA…
With "Poured" babbitt bearings like picture a… **State Make, Year Model, Motor No. and which cyl. (1st, etc. counting from flywheel) rod forging no. Keep old Wrist Pin Locks. Ship from** Factory near Plymouth, Ind. or Buffalo, … in 3 extra days. *Mailable.*
M261 A 5761—For 4-Cyl. cars. Full Price … exchange coupon). Ship. wt. 3 lbs. Each. … Exchange Price, Each. …
M261 A 5763—For 6-cyl. cars. Full price … exchange coupon). Ship. wt. 3 lbs. Each. … Exchange Price, Each. …
M261 A 5768—For 8-cyl. cars. Full Price … exchange coupon). Ship. wt. 3 lbs. Each. … Exchange Price, Each. …



17c Ea. and up — PUT NEW LIFE IN YOUR MOTOR WITH NEW I-PIECE VALVES

First quality like original, yet cost you less than half. The *special alloy steel* used in Wards Supreme Quality Exhaust Valves resists blazing exhaust heat of high compression motors and destructive acids in high test fuel. Ground and polished. *S.A.E. Chrome Nickel Alloy Steel* is used in Standard Quality Intake Valves — may be used for exhaust in motors not having high compression or if high test fuels are not used. Heat treated stem and seat. Ground and polished. For best results, install a complete set. Ship. wt. 8 oz.

Make and Year of Car or Truck	Fit Only Makes and Models Below	Stem Diam.	Valves Fit	Chrome Nickel	Each	Heat-Resist.	Each
Chevrolet 1913-27	All 4 (1⅛" Head)	5/16 in.	In. & Ex.	61 A 9275	19c	61 A 9124	39c
1927-28	4 (1²¹/₃₂" Head)	5/16 in.	In. & Ex.	61 A 9246	19c	61 A 9153	39c
1929	6	5/16 in.	In. & Ex.	61 A 9219	19c	61 A 9126	29c
1930-31	6	5/16 in.	Intake	61 A 9221	19c		
1930-31	6	5/16 in.	Exhaust			61 A 9155	29c
1932	6	5/16 in.	Intake	61 A 9233	19c		
1932	6	5/16 in.	Exhaust			61 A 9172	29c
1933	6 (1934 Std. 6 cyl.)	5/16 in.	Intake	61 A 9225	19c		
1933	6 (1934 Std. 6 cyl.)	5/16 in.	Exhaust			61 A 9179	29c
1934-35	Master-Slotted Stem	11/32 in.	Intake	61 A 9223	19c		
1934-35	Master-Slotted Stem	11/32 in.	Exhaust			61 A 9183	29c
1935-36	6 Grooved Stem	11/32 in.	Intake	61 A 9271	19c		
1935-36	6 Grooved Stem	11/32 in.	Exhaust			61 A 9149	29c
1937-39	All	11/32 in.	Intake	61 A 9268	25c		
1937	All	11/32 in.	Exhaust			61 A 9150	35c
1938-39	All	11/32 in.	Exhaust			61 A 9159	35c
Dodge 1915-28	4	3/8 in.	In. & Ex	61 A 9277	23c	61 A 9132	42c
1933-39 Pass.	6	11/32 in.	Intake	61 A 9252	20c		
1933-39 Pass.	6	11/32 in.	Exhaust			61 A 9181	30c
Essex 1925-31	6	5/16 in.	In. & Ex	61 A 9289	21c	61 A 9134	39c
1932-33	6	5/16 in.	Intake	61 A 9295	25c		
1932-33	6	5/16 in.	Exhaust			61 A 9187	39c
Terraplane 32-33	6, K, KU	5/16 in.	Intake	61 A 9295	25c		
Terraplane 32-33	6, K, KU	5/16 in.	Exhaust			61 A 9187	39c
1934-35	6	5/16 in.	Intake	61 A 9297	25c		
1934-35	6	5/16 in.	Exhaust			61 A 9189	42c
Ford 1909-27	T, TT	5/16 in.	In. & Ex	61 A 9279	17c		
1928-33	A, AA, B, BB, 46	5/16 in.	In. & Ex	61 A 9238	21c	61 A 9140	29c
1932-33	V-8, 18-40	5/16 in.	In. & Ex	61 A 9235	21c	61 A 9174	29c
1934-39	V-8 85 H.P. Engine	5/16 in.	In. & Ex	61 A 9241	25c	61 A 9175	29c
1937-40	V-8 60 H.P. Engine	5/16 in.	In. & Ex	61 A 9243	25c	61 A 9176	29c
Oldsmobile 29-31	6, F-29, F-30, F-31	11/32 in.	Intake	61 A 9273	27c		
1929-31	6, F-29, F-30, F-31	3/8 in.	Exhaust			61 A 9151	59c
1934-35	6, F-34, F-35	11/32 in.	Intake	61 A 9213	27c		
1934-35	6, F-34, F-35	11/32 in.	Exhaust			61 A 9130	59c
Plymouth '30-31	4 after No. 220883	3/8 in.	Intake	61 A 9250	25c		
1928-31	4	3/8 in.	Exhaust			61 A 9143	32c
1933-39	6	11/32 in.	In. & Ex	61 A 9252	20c	61 A 9181	30c
Pontiac 1926-28	6	5/16 in.	In. & Ex	61 A 9231	21c	61 A 9138	37c
1929-32	6	5/16 in.	Exhaust	61 A 9231	21c	61 A 9138	37c
1929-31	6	5/16 in.	Intake	61 A 9217	21c		
1933-36	8	5/16 in.	Intake	61 A 9236	25c		
1933-36	8	5/16 in.	Exhaust			61 A 9191	42c

2-Piece Std. Valves. Cast Iron Head with Steel Stem For Ford T-TT
61 A 2893—1909-27, Standard Size. Ship. wt. 5 oz. Each 12c
61 A 2894—1909-27, 1/64-in. Oversize Stem. Ship. wt. 5 oz. Each. 12c

Valve Guides, Springs, Push Rods (Av. Ship. Wt. 6…

*Also Fits models B-BB, 1932-34	Year	Model	Article No.	Pr…
FORD (D) Valve Push Rod	1928-31	A-AA	61 A 3166	1…
(F) Valve Push Rod 85, 95 H.P.	1932-41	V-8	61 A 3417	1…
(C) Valve Guide Bush. (Pr.)	1928-34	A-AA*	61 A 3265	1…
(G) Valve Guide Bush. 60 H.P. Pair	1937-40	V-8	61 A 3312	1…
(G) Valve Guide Bush. 85 H.P. Pair	1934-41	V-8	61 A 3310	1…
(A) Valve Spring	1928-34	A-AA*	61 A 3167	
(A) Valve Spring	1934-40	V-8	61 A 3279	
(A) Valve Spring	1909-27	T-TT	61 A 2895	
(E) Push Rod	1909-27	T-TT	61 A 2896	2…
CHEV. (B) Valve Stem Guide (ex. 1934 Master) (Intake, Exhaust)	1929-34		61 A 5569	
(B) Intake Valve Guide	1934	Master	61 A 5782	1…
(B) Exhaust Valve Guide	1934-36	Master	61 A 5788	1…
(B) Intake Valve Guide	1935-36	All	61 A 5673	1…
(B) Intake Valve Guide	1937-40	All	61 A 5674	1…
(B) Exhaust Valve Guide	1937	All	61 A 5787	1…
(B) Exhaust Valve Guide	1938-40	All	61 A 5675	1…
(A) Valve Spring	1916-28	All	61 A 5607	
(A) Valve Spring	1929-33	All	61 A 5597	
(A) Valve Spring	1934-37	Master	61 A 5619	
(A) Valve Spring	1938-40	All	61 A 5622	
PLYMOUTH (A) Valve Spring	1933-39	All	61 A 3268	1…
(B) Intake and Exhaust Valve Guide	1933-40	All	61 A 3266	1…

VALVE GRINDING SET—Grinder with 4 fittings … suction cup, Lathe with 45° tool steel cutter, Reamer … chrome nickel steel blades and 5/16, 3/8, 11/32, and … pilots; **Wards Supreme Grease Mixed Grinding Com… pound.** For all 45° valves 1 to 2 in. diam. except Chev… 61 A 8350—Ship. wt. 4 lbs. 12 oz. Set. …



(H)



(J)

Factory rebuilt. Easy to install. Ave. ship. wt. each 1 lb. 12 oz.
(H) 61 A 3226—For Chevrolet 1927-33, Std. 6, 1934; Oakland 1927-29; Pontiac 1926-30; Studebaker 6 Models 53, 54, 55, 56, 1930-33. **95c**
(J) 61 A 3338—For Chevrolet 1938-41; Buick, Cadillac 1939-41; La Salle, Olds., Pontiac 1939-41 . . $1.25
(H) 61 A 3227—Ford A, 1929-31; Hudson 1930-31; Hup. 6, 1929-33. . . . . 95c

STARTER DRIVE ASSEMBLIES
For Popular Cars
Complete With Drive Spring

95c Each and up for Ford and Chevrolet

(H) 61 A 3317—For Ford B, V-8, 1932-41 (except 60 H.P.); Lincoln Zephyr 1936-40; Mercury 8, 1938-40. . . . . **95c**
(J) 61 A 3339—For Plymouth 6, Dodge 6, De Soto 1933-34; Chrysler 6-8, '32-36; Buick 1932-38; Olds. '33-37 **$1.25**
(J) 61 A 3341—For Chrysler, DeSoto, Dodge, Plymouth 1935-41 . . **$1.25**
M261 A 3354—For all other **makes of cars**, trucks not listed. State **Make**, Year, Model, Serial No. Shipped from Factory in Chicago, usually in 3 extra days. *Mailable*. **$1.49**



Starter Drive Springs
17c Each and up

Furnished with cap screws and lock washers.
61 A 3146—For Ford 1928-31 A-AA. Ship. wt. 11 oz. Each. **19c**
61 A 3264—For Ford 1932-40 B, V-8. Ship. wt. 10 oz. Each. **23c**
61 A 5633—For Chevrolet 1934-37. Ship. wt. 8 oz. Each. **19c**
61 A 5645—For Chevrolet 1926-33. Wt. 8 oz. . . **17c**



Flywheel Gears—Like Original—Save 40% to 60%

89c For Ford A-AA

Special analysis steel—hardened and heat treated for lo… hard service. Precision cut teeth. Meet S.A.E. Specification… Made by a nationally known manufacturer of quality part… Duplicates original yet costs less than ½ usual replacement… prices. For flywheels of original diameter only. Tho… **keyed M261 shipped from Factory** near Dayton, Ohio, usually in … extra days. Others from Stock. For trucks, write for prices. State Make, **Year, Model.** Av. wt. 4 lbs. 8 oz. If your car is not listed in table below order under Art. No. M261 A 8948 below.

Only For Models Listed	Article No.	Price
Chevrolet 1925-28, 4-cyl.	61 A 8890	$1.69
1930-32 All; 1933-34 Std.	61 A 8893	1.79
1934-35 Master, 1935 Std.	M261 A 8947	1.79
Ford 1928-39 A, B, V-8, Cars, Trucks (Exc. 60 H.P.)	61 A 8892	89c
Pontiac 1926-31, 6-cyl.	61 A 8890	$1.69

M261 A 8948—For all other cars ex… Ford T. *State Make, Year, Model, Serial No.* num… ber of teeth. Ship… ped from stock at Factory in Dayton, Ohio. Av. wt. 4 lbs. 8 oz. $2.69

ADD REPAIR PARTS TO YOUR TIME PAYMENT ORDER

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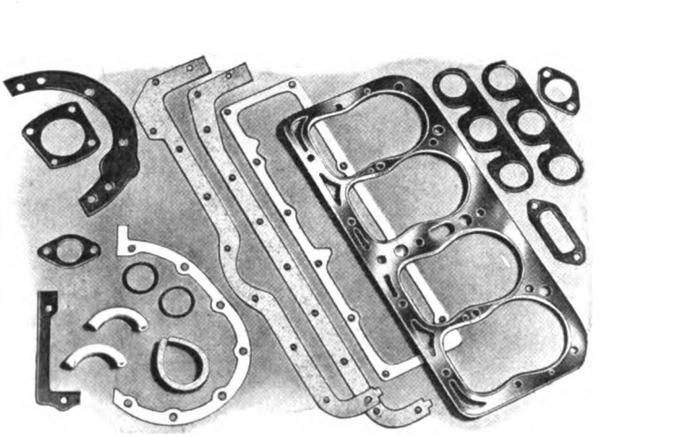
WARDS CYLINDER HEADS

Finest Quality—Perfect Fit

SEE WHAT YOU SAVE!

CAR MAKE	DEALER PRICE	WARDS PRICE
Ford A	$6.00	$2.75
Chevrolet 6	21.45	$9.45
Plymouth 6	11.00	$7.45





Brand New Cylinder Heads—Meet S.A.E. Specifications

lace Original Equipment Cy-
er Heads Perfectly.
ividual Factory Inspection As-
a Perfect Compression-
t, Pressure-Tested Head. Free
a Imperfections.
hined on Precision Equipment
Accurate Fit.
s Drilled to Fit Original Car
ters' Specifications.
eral Allowance for old Alum-
m Cylinder Heads (see below).

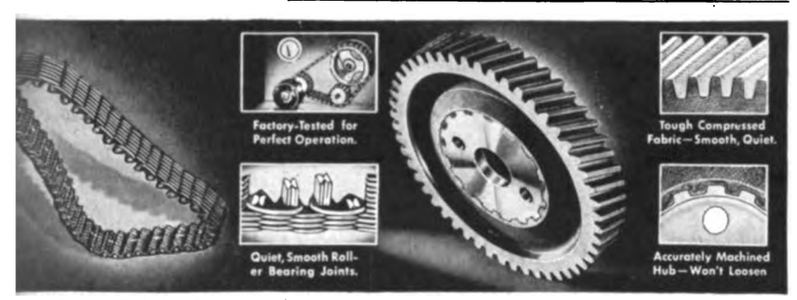
to any Cylinder Heads money can
and in many cases you save more
½ on Car Manufacturer's list
. For examples see above.

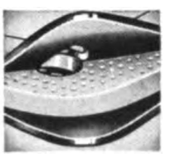
rds Cylinder Heads are made of
nickel content, close grain cast
except certain heads for Ford V-8
are best quality cast Aluminum
like originals). Individually in-
d and pressure tested by factory
s . . . your assurance that the
you get will be perfect compres-
ight replacement. Heads for Chev-
complete with valve guides. Those
, "M261" shipped from Fac-
ear Chicago, Ill., in 3 extra days;
Stock. For Chevrolet Head As-
ies, see Rebuilt Motor Page. Add
nder Head and Gaskets to your
Payment Order.

E: (†) Order Head Gasket 61 A
★ For Flat Head Aluminum
ns only. (•) For Dome Head
Pistons only. (*) *Not Available*
thers Available.

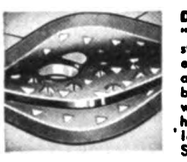
rance for Old Aluminum Head.
a are purchasing a new aluminum
Wards send you a refund coupon
for cash and redeemable when old
num head (regardless of condi-
is sent *prepaid* to any Mail Order
e. Allowances as follows: 85 and
I.P. Aluminum Heads, $1.00; 60
Aluminum Heads, 65c.

Fits Only Makes, Years and Models Listed	Ship. Wt	Article No.	Price
CHEVROLET			
1916–27, 4-cyl.—1½-in. valves Cars, Trucks	42 lbs.	M261A5616	$6.49
1927, 4-cyl.—1²¹/₃₂-in. valves Cars, Trucks	42 lbs.	M261A5587	6.49
1928, 4-cyl.—Cars and trucks	42 lbs.	M261A5588	6.49
1929, 6-cyl.—Cars and trucks	68 lbs.	M261A5573	9.65
1930–31, 6-cyl.—Cars and trucks	68 lbs.	461A5574	9.95
1932, 6-cyl.—Cars and trucks	68 lbs.	461A5554	9.95
1933, Master 6-cyl.—Cars and trucks	74 lbs.	•†161A5552	9.95
1933, Std. 6-cyl.—Cars and trucks	68 lbs.	•†261A5553	9.95
1934, Master 6-cyl.—Cars and trucks	78 lbs.	•†161A5578	11.95
1934, Std. 6-cyl.—Cars and trucks	68 lbs.	•†261A5577	9.95
1935, 6, uses 2 Piece Valve Keys—Cars, trucks	73 lbs.	•†161A5581	11.95
1935, 6, uses 1 Piece Valve Keys—Cars, trucks	78 lbs.	•†161A5583	11.95
1936, 6 Std. and Master Cars and Trucks	78 lbs.	•†161A5572	11.95
1937–40, 6-cyl.—All Models Cars and Trucks	72 lbs.	•†161A5537	11.95
DODGE 1933, 6-cyl. DP (Cast Iron)	39 lbs.	M261A5539	7.45
1935–40, 6-cyl. (Cast Iron)	34 lbs.	M261A5559	6.45
FORD 1928–31, A-AA Cars and Trucks	33 lbs.	481A3184	2.75
†1928–31, A-AA High Compression Cars, Trucks	31 lbs.	481A2500	2.98
1932–34, B-BB, B46—4-cyl. Cars, Trucks	36 lbs.	M261A2505	5.98
★1932–36, V-8, Right (Aluminum) Cars, Trucks	13 lbs.	561A2502	6.95
★1932–36, V-8, Left (Aluminum) Cars, Trucks	13 lbs.	561A2503	6.95
★1932–36, V-8, Right (Cast Iron) Cars, Trucks	29 lbs.	461A2650	3.69
★1932–36, V-8, Left (Cast Iron) Cars, Trucks	29 lbs.	461A2651	3.69
•1935–36, V-8, Right (Cast Iron) Cars, Trucks	29 lbs.	461A2808	3.95
•1935–36, V-8, Left (Cast Iron) Cars, Trucks	29 lbs.	461A2809	3.95
•1935–36, V-8-Right (Aluminum) Cars, Trucks	12 lbs.	461A5545	6.95
•1935–36, V-8-Left (Aluminum) Cars, Trucks	12 lbs.	461A5546	6.95
1937, V-8, Right or Left—85 H.P. (Cast Iron)	27 lbs.	461A5540	4.89
1937, V-8, Right or Left—85 H.P. (Alum.)	13 lbs.	561A5536	7.49
1937–40, V-8, Right or Left—60 H.P. (Alum.)	7 lbs.	561A5538	4.95
1937–40, V-8, Right or Left—60 H.P. (Cast Iron)	21 lbs.	461A5541	3.49
1938–41, V-8 Right or Left—85 H.P. (Alum.) Cars	11 lbs.	M261A2810	8.95
1938–41, V-8, Right or Left—85 H.P. (Cast Iron) Cars,	17 lbs.	M261A2811	4.49
1938–41, V-8, Right or Left—85 H.P. (Cast Iron) All Trucks and 95 H.P. Mercury Cars	27 lbs.	M261A2812	4.49
1939–41, V-8 Right or Left—95 H.P. Trucks and Mercury 8 (Aluminum)	13 lbs.	461A5547	8.95
1939–41, V-8, Right or Left—95 H.P. (Cast Iron) All Trucks and Busses	27 lbs.	M261A2813	4.49
OLDSMOBILE 6, 1935–36 (Cast Iron)	40 lbs.	M281A5548	6.29
1937–39, 6-cyl. (Cast Iron)	40 lbs.	M261A5549	6.29
PLYMOUTH			
1933–34, 6-cyl. All Models	39 lbs.	M261A5539	7.45
1935–40, 6-cyl. All Models	35 lbs.	M261A2814	8.29





McCord Gaskets Nationally Famous Gaskets. Same gaskets as made for original equipment. 2 sheets of copper or steel with asbestos filler except Ford V-8, like original.



Double-Seal Gaskets "Soft-faced" grid-steel inner core, covered with waterproof asbestos on top and bottom. Conforms to warped surfaces hardens after installation. Meets S.A.E. Standards.

Complete Gasket Sets With McCord Head Gaskets — 95c and up

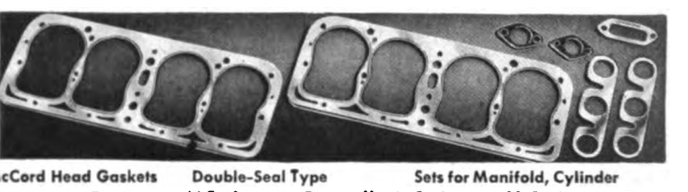
Set includes gaskets for cylinder heads, intake and exhaust manifolds, valve cover, oil pan, outlet connections and all others required for a complete block overhaul. Ship. wt. set 2 lbs. 10 oz.

Fits Only Models Listed	Article No.	Price
Ford A, AA, 1928–31	61 A 2930	95c
1932–34, V-8, 85 H.P.	61 A 2931	$1.09
1935–37, V-8, 85 H.P.—21 Stud.	61 A 2932	1.09
1938–41, V-8, 85 H.P.—24 Stud.	61 A 2933	1.09
Fordson, to 1927 incl.	61 A 2581	1.09
Chevrolet 6, 1929–31	61 A 2934	1.35
1935–36, 6 cyl.	61 A 2935	1.35
1937–39, 6 cyl.	61 A 2936	1.49
Plymouth 6, 1935–41	61 A 2937	1.49
Dodge 6, 1934–41, Pass. cars only	61 A 2938	1.49
Pontiac 6, 1935–40	61 A 2939	1.55
Oldsmobile 6, 1937–38	61 A 2940	1.55
1939–40, 6 cyl.	61 A 2941	1.55

Complete Gasket Sets With Double-Seal Head Gaskets — 85c and up

All gaskets for cylinder heads, intake, and exhaust manifolds, valve cover, oil pan, outlet connections and all others required for a block overhaul. No additional gaskets to buy—ready to install. Wt. set 2 lbs. 10 oz.

Fits Only Models Listed	Article No.	Price
Ford A-AA, 1928–31	61 A 2565	85c
1932–34, V-8	61 A 2582	$1.35
1935–37, V-8, 85 H.P.—21 Stud	61 A 2585	1.35
1938–41, V-8, 85 H.P.—24 Stud	61 A 2578	1.35
Chevrolet, All 1929–31	61 A 2566	1.09
1932, All	61 A 2587	1.06
1933, Master only	61 A 2588	1.05
1934, Master only	61 A 2589	1.05
1935–36, All	61 A 2590	1.05
1937–39, All	61 A 2567	1.29
Dodge, 1934–41 Pass. Cars only	61 A 2586	1.05
Plymouth, 1933–34 6 Cyl.	61 A 2579	1.05
1935–41 6 Cyl.	61 A 2580	1.05



McCord Head Gaskets Same construction as McCord Head Gaskets in sets above. Meet S.A.E. Standards. Wt. 1 lb. 12 oz. — **29c** and up

Double-Seal Type "Soft-faced" Head Gaskets. Conforms to warped surfaces. Wt. 1 lb. 8 oz. — **19c** and up

Sets for Manifold, Cylinder Head, Carburetor McCord or "Double-Seal" type like above. For cylinder head, manifolds, carburetor flange. Ship. wt. set, 2 lbs. 9 oz. — **42c** and up

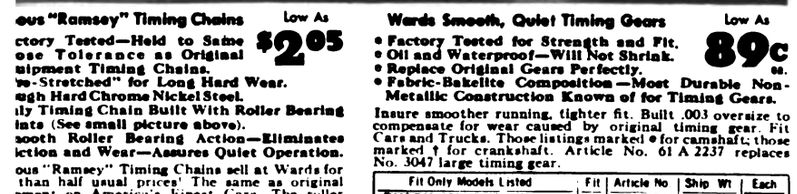
Fit Only Models Listed	McCord Article No.	McCord Each	Double-Seal Article No.	Double-Seal Each
Buick B, 40—1937–40	61A2881	83c		
50 Series, 1940	61A2881	83c		
Chevrolet, All 4-cyl.	61A9920	29c	61A2809	19c
1929–32, 6, Master 1933, 1934, Master 6	61A9919	43c	61A2610	29c
			61A2611	30c
1935–36, All 6	61A9913	46c	61A2615	30c
1937–41, All 6	61A9909	46c	61A2618	35c
Chrysler, 1925–28, 4, 50, 52, 58	61A9910	55c		
Dodge, All to early 1927	61A9880	54c		
1933, 6-cylinder Cars	61A9987	58c	61A2613	35c
1934–41, 6-cyl. Cars only	61A9914	58c	61A2618	35c
Essex, 1929–30, 6-cyl.	61A9877	75c		
Ford, 1909–27, T-TT	61A2869	33c	61A2605	23c
1928–31, A-AA	61A2871	46c	61A2606	23c
1932–33, B-BB	61A2872	46c		
1932–36 (Pair), V-8	61A2870	64c	61A2608	45c
1937 (Pair), V-8 85 H.P.	61A2870	64c	61A2608	45c
1938–41 (Pr.), V-8 85 H.P.	61A2874	70c	61A2619	52c
1937–41 (Pr.), V-8, 60 H.P.	61A2875	70c		
Hudson 6, 1937–41	61A2879	73c		
Mercury 8, 1939–41 (Pair)	61A2874	70c	61A2619	52c
Olds. 6, 1937–40	61A2880	71c		
Plymouth, 1929–32, 4	61A9885	62c	61A2612	29c
1933–34, 6-cylinder	61A9987	58c	61A2613	35c
1935–41, 6-cylinder	61A9914	58c	61A2618	35c
Pontiac, 1926–31 (Pr.)	61A9881	72c	61A2614	38c
1935–40, 6-cyl.	61A2878	43c	61A2617	32c
Terraplane 6, 1937–38	61A2879	73c		
Whippet, '26–30, 4-cyl.	61A9882	49c		
Willys, 1933–38, 77	61A9882	49c		

Double-Seal Sets for Manifold Only

Like Double-Seal gaskets above, but for intake and exhaust manifolds only. Ship wt. set, 7 oz.

Fits Cars, Trucks	Article No.	Each
Buick 8-40 Series, 1934–40	61A2990	25c
Chev., 1929–33, 6-cyl.	61A2562	19c
1934–36, 6-cyl.	61A2563	19c
1937–41, 6-cyl.	61A2564	19c
Chrysler, 1930–36, 6-ex. 66, 77	61A2973	25c
De Soto, 6, 1928–36	61A2973	25c
Dodge, '30–32, 6-ex. DA. Pass. only	61A2973	25c
1933–41, 6-cyl.	61A2979	19c
Ford, 1909–27, T-TT	61A2560	10c
1928–32 A-AA, B	61A2561	10c
1932–41 (Ex. 60), V-8	61A2974	19c
Oldsmobile 6, 1934–36	61A2995	25c
1937–41, 6-cyl.	61A2996	19c
Plymouth, 1928–32, 4 cyl.	61A2978	17c
1933–41, 6-cyl.	61A2979	19c
Pontiac, 6, 1926–31	61A2980	19c
1935–38, 6-cyl.	61A2991	25c
1939–40, 6-cyl.	61A2992	25c

•For exhaust manifolds only.



ous "Ramsey" Timing Chains — Low As $2.05

ctory Tested—Held to Same
ose Tolerance as Original
uipment Timing Chains.
ve-Stretched" for Long Hard Wear.
ugh Hard Chrome Nickel Steel.
ly Timing Chain Built With Roller Bearing
ints (See small picture above).
ooth Roller Bearing Action—Eliminates
riction and Wear—Assures Quiet Operation.

ous "Ramsey" Timing Chains sell at Wards for
than half usual prices! The same as original
pment on America's Finest Cars. The roller
n allows chain to revolve over sprocket with
tically no wear to links—longest lasting chain
e. Instructions for installation included. Ship.
3 lbs. *Don't Guess*—Refer to your registration
and *give correct ordering information.*

Only Cars, Years and Models Below	Article No.	Each
CHRYSLER,		
30–34, 6-cyl., CM, CI, CO, CA, CB	61 A 8830	$2.49
30–33, 8-cyl., CD, CP, CT, CQ	61 A 8830	2.49
34–39, Airflow 8	61 A 8824	2.49
35–39, Airstream, Royal Six	61 A 8848	2.19
DESOTO, 1928–33, 6-cyl. (48 links)	61 A 8830	2.49
34–36, SE, SF, SG, AS, AF, S1, S2	61 A 8848	2.19
37–39, S3, S5, S6, DS-6 Cyl	61 A 8848	2.19
DODGE, 1918–28, 4-cyl	61 A 8832	2.29
29–33 New 6 and 8 cyl (48 links)	61 A 8830	2.49
27–30, Std. and Vic. 6 (57 links)	61 A 8833	2.75
33–39, 6-cyl., All Models	61 A 8848	2.19
ESSEX, 1924–32, 6 cyl	61 A 8833	2.75
FUDSON, 1930 and 1933, Greater 8 Cyl	61 A 8833	2.75
OLDSMOBILE,		
28–30, 6 Cyl. Series F	61 A 8833	2.75
31–36, 6-Cyl. Series F	61 A 8824	2.49
PLYMOUTH, 1933–39, 6-Cyl. All	61 A 8848	2.19
PONTIAC, 1926–32, 6-Cyl	61 A 8847	2.05
33–39, 8-Cylinder	61 A 8837	2.39
WHIPPET,		
26–31, 4, 6 (with sideguide)	61 A 8896	2.59
26–31, 4, 6 (with center guide)	61 A 8897	2.69

a. Wide, Check old Chain for Type of Guide before Ordering

'Ramsey" Timing Chains for Other Cars

'61 A 8840—For all pass cars not listed above
m 1928 to 1940. State Make, Year, Model (Or
del No.), No. of cylinders, Serial No. and if center
side guide. Shipped from Factory in Albany,
Y. in 4 extra days. Shipping weight
bs. *Mailable*.....$4.10

Wards Smooth, Quiet Timing Gears — Low As 89c ea.

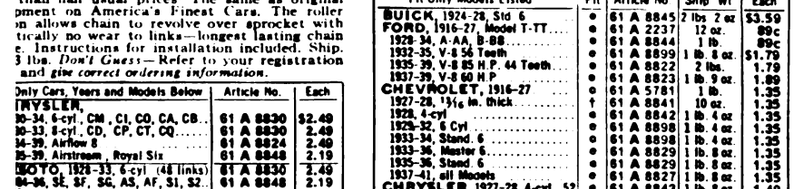
- Factory Tested for Strength and Fit.
- Oil and Waterproof—Will Not Shrink.
- Replace Original Gears Perfectly.
- Fabric-Bakelite Composition—Most Durable Non-Metallic Construction Known of for Timing Gears.

Insure smoother running, tighter fit. Built .003 oversize to compensate for wear caused by original timing gear. Fit Cars and Trucks. Those listings marked • for camshaft; those marked † for crankshaft. Article No. 61 A 2237 replaces No. 3047 large timing gear.

Fit Only Models Listed	Fit	Article No	Ship Wt	Each
BUICK, 1924–28, Std. 6	•	61 A 8845	2 lbs. 2 oz	$3.59
FORD, 1916–27, Model T-TT	•	61 A 2237	12 oz.	89c
1928–34, A-AA, B-BB	•	61 A 8844	1 lb.	89c
1932–35, V-8 56 Teeth	•	61 A 8899	1 lb. 8 oz.	$1.79
1935–39, V-8 85 H.P. 44 Teeth	•	61 A 8822	2 lbs.	1.79
1937–39, V-8 60 H.P.	•	61 A 8823	1 lb. 9 oz.	1.89
CHEVROLET, 1916–27	•	61 A 5781	1 lb.	1.35
1927–28, 1⅛ in. thick	†	61 A 8841	10 oz.	1.35
1928, 4-cyl.	•	61 A 8842	1 lb. 4 oz.	1.35
1929–32, 6 Cyl.	•	61 A 8898	1 lb. 4 oz.	1.35
1933–34, Stand. 6	•	61 A 8898	1 lb. 4 oz.	1.35
1933–36, Master 6	•	61 A 8829	1 lb. 8 oz.	1.35
1935–36, Stand. 6	•	61 A 8829	1 lb. 8 oz.	1.35
1937–41, all Models	•	61 A 8827	1 lb. 8 oz.	1.35
CHRYSLER, 1927–28, 4-cyl., 52	•	61 A 8843	1 lb. 8 oz.	1.49
HUDSON, 1932–35, 6-8, LT, LU	•	61 A 8825	1 lb. 8 oz.	1.49
TERRAPLANE, 1932–35, 6, 8	•	61 A 8825	1 lb. 8 oz.	1.49
PLYMOUTH, 1928–32, 4 Cyl.	•	61 A 8843	1 lb. 8 oz.	1.49

Wards Timing Gears for Other Cars

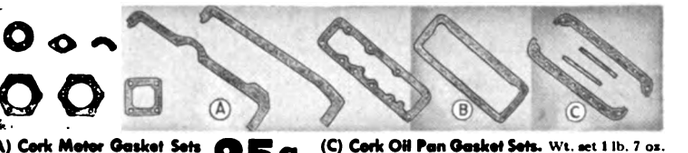
M261 A 8839—Silent Type Camshaft, Crankshaft or Idler Gears (Not Timing Chain Sprockets) for all pass. Cars not listed above from 1928 to date. State Make, Year, Model and Serial No. of Car and number of teeth on present gear. Also Type Gear wanted. Furnished in std. size only. Shipped from Factory in Chicago in 3 extra days Average ship. wt. 3 lbs. *Mailable*. Each.....$3.89



Fast Action Pump

Neoprene Diaphragm. No priming. Pumps 8 to 10 gal. gas, alcohol, oil per min. Adapter, pipe for any barrel. Ship. wt. 15 lbs.

461A9894—No hose. $6.45
61 A 9895—8-Ft. Hose for above. Woven wire construction avoids fire hazard. Wt. 4 lbs. 8 oz. $2.69



(A) Cork Meter Gasket Sets — 25c and up

When you take down the oil pan be sure to install new gaskets to prevent oil loss. Set accurately cut from fine cork for perfect fit. Oil pan, valve cover and other cork motor gaskets except gear case. Ship. wt. 1 lb. 8 oz.

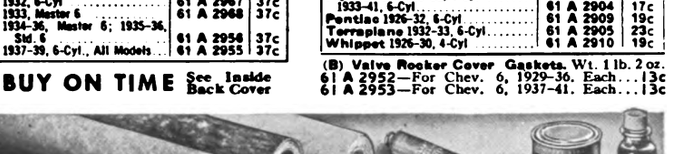
Ford 1916–27, T-TT	61 A 2965	32c
1928–31, A-AA	61 A 2963	25c
1932–34, V-8	61 A 2950	32c
1935–41, V-8, 85 H.P.	61 A 2951	32c
Chevrolet, 1916–28, 4-Cyl.	61 A 2944	32c
1929–31, 6-Cyl.	61 A 2966	35c
1932, 6-Cyl.	61 A 2967	37c
1933, Master 6	61 A 2968	37c
1934–36, Master 6; 1935–36, Std. 6	61 A 2956	37c
1937–39, 6-Cyl., All Models	61 A 2955	37c

(C) Cork Oil Pan Gasket Sets. Wt. set 1 lb. 7 oz.

Chevrolet 1929–31, 6-Cyl.	61 A 2922	12c
1933–36, Mast. 6; 1935–36, Std. 6	61 A 2923	15c
1937–39, 6-Cyl., All	61 A 2928	15c
Chrysler 1930–36, 6 exc. 66, 77	61 A 2903	19c
De Soto 1929–36, 6-Cyl.	61 A 2903	19c
Dodge 1930–32, 6 except DA	61 A 2903	19c
1933–41, 6-Cyl., Cars only	61 A 2904	17c
Essex 1927–32, 6-Cyl.	61 A 2905	23c
Ford 1928–31, A-AA	61 A 2921	12c
1932–34, V-8, 18, 40	61 A 2906	15c
1935–41, V-8, 85 H.P.	61 A 2911	17c
1937–39, V-8, 60 H.P.	61 A 2927	17c
Plymouth 1929–32, 4-Cyl.	61 A 2907	17c
1933–41, 6-Cyl.	61 A 2904	17c
Pontiac 1926–32, 6-Cyl.	61 A 2909	19c
Terraplane 1932–33, 6-Cyl.	61 A 2905	23c
Whippet 1926–30, 4-Cyl.	61 A 2910	19c

(B) Valve Rocker Cover Gaskets. Wt. 1 lb. 2 oz.
61 A 2952—For Chev. 6, 1929–36. Each...13c
61 A 2953—For Chev. 6, 1937–41. Each...13c

BUY ON TIME See Inside Back Cover



Gasket Material—Average ship. wt. 1 lb.

Material	Size In.	Thick.	Article No	Ea.
(A Asbestos	10 x 40	1/32 in	61 A 2959	39c
(B Fiber	10 x 36	1/32 in	61 A 2960	23c
(C Cork	12 x 36	1/16 in	61 A 2957	23c
(C) Cork	12 x 36	1/8 in	61 A 2958	42c

61 A 2961—1 Each of Asbestos and Fiber Sheets above. Ship. wt. 1 lb. 2 oz. 2 sheets. 52c

(D) 61 A 6341—Gasket Compound. Use with or without gaskets. Resists heat, water, oil, gas. 3-ounce tube. Ship. wt. 8 oz. 15c

(F) 61 A 9664—Gasket Cement. 2-oz. Bottle with Dauber. Ship. wt. 10 oz. .. 6c

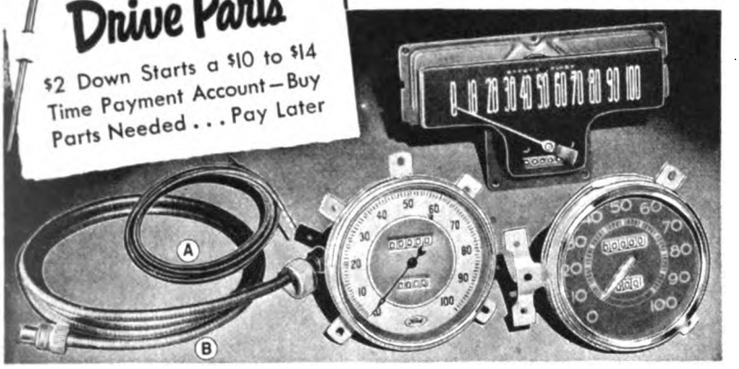
Buy on Time—See Inside Back Cover

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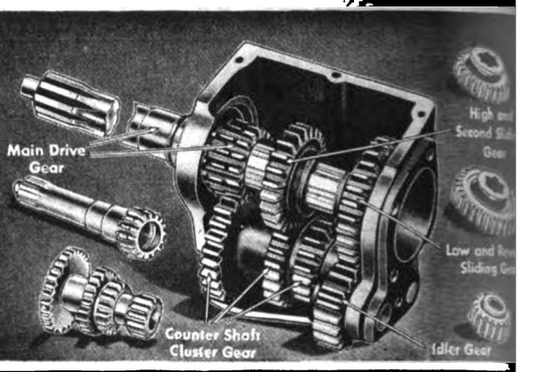
WARDS DRIVE PARTS EQUAL

Drive Parts

$2 Down Starts a $10 to $14 Time Payment Account—Buy Parts Needed . . . Pay Later



Made by one of America's largest transmission gear manufacturers. Meet S.A.E. Specifications—correctly fabricated, hardened. If the types for your car are not listed, write us for prices. Be sure to state make, year, and model of car and kind of gear wanted. Av. ship. wts.: Main Drive Gear, 4 lbs.; High and Second Gear, 3 lbs. 12 oz.; Low and Reverse Gear, 3 lbs. (except 61 A 3423, 8 lbs. 12 oz.); Idler Gear, 2 lbs. 12 oz.; Countershaft Cluster Gear, 6 lbs. (except 461 A 3402, 18 lbs.).



Replacement Speedometer Cables — 25c and up

Ⓐ Multicoil steel wire. With end pieces. Wt. 7 oz. **Fit pass. cars only unless stated.**

61 A 2770—For **Ford** A, 1928-29. 62 in. long . . . 25c
61 A 2768—For **Ford** A, B, V-8 1930-34; **DeSoto, Dodge, Plymouth** 1935-36 (no overdrive). 61⅜ in. long . . . 25c
61 A 2771—**Ford** V-8, 1935 to July 1937. 68¾ in. . . . 25c
61 A 2775—**Ford** V-8, Aug. 1937-39; ½-Ton 1937. 65⅜ in. 25c
61 A 2769—For **Chev.** 1926-36; **Olds.** 6-8, 1930-36; **Plymouth** 6 1933; **Pontiac** 6-8, 1926-36; **Buick** 40, 1934-36 . . . 29c
61 A 2776—**Chev., Pontiac, Buick, LaSalle, Cadillac** 1937-41; **Ford** V-8, 1940-41; **Hudson** 1932-40; **Lafayette** 1931-40; **Olds.** 1937; **Olds.** 1939-40; **Willys** 1930-38; **Dodge, Plymouth** 1935-38 (without overdrive) 71 in. long . . . 29c

Replacement Speedometer Cable Housings — 72c

Ⓑ Flexible metal tubing. Dirt, oilproof. Wt. 1 lb. 6 oz. **Fits pass. cars and ½-ton trucks only.**

61 A 2772—**Ford**, A, B, V-8, 1930-34; **DeSoto, Dodge, Plymouth**, 1930-34. 61 in. long . . . 72c
61 A 2773—For **Ford** V-8, 1935-37—65 in. long . . . 72c
61 A 2784—**Ford** V-8, 1937-39. 65 in. long . . . 72c
61 A 2774—**Chev., Olds.** 1933-36, **Pontiac** 1931-35 . . . 75c
61 A 2781—**Chev., Olds., Buick, Pontiac, LaSalle, Cadillac**, 1937-41 . . . 75c

Cables and Housings for Other Pass. Cars. State Make, Year, Model, Ser. No. and if overdrive or not. Shipped from Factory in Chicago, Ill. Ship. wts. 7 oz., 1 lb. 6 oz.
M261 A 2748—Speedometer Cable . . . 69c
M261 A 2749—Speedometer Cable Housing . . . $1.29

Rebuilt Speedometer Head Assemblies — $3.95

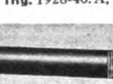
$1.00 Allowance for Old Speedometer. Exchange Original equipment Speedometers completely renewed. Every part checked and tested. Any part showing wear is replaced with a new part. Tested at factory—mileage turned back to zero. Assembled, **State make, year, model (Std. or DeLuxe) of car or truck. Shipped from Factory** in Chicago in 3 extra days. **$1 Allowance for Old Speedometer. Exchange Plan:** Send old Speedometer Head Postpaid, plus Exchange Price. **Full Price Plan:** Send Full Price plus postage. We send Speedometer head and refund coupon which you redeem when old one is returned, Postpaid, to any Ward Mail Order House.

M261 A 2843—For **Chev.** 1928-39 Pass. Cars and Trucks. Ship. wt. 4 lbs. Full price . . . $4.95
Exchange Price . . . 3.95

M261 A 2844—For **Ford** 1928-39 Pass. Cars and Trucks. Ship. wt. 4 lbs. Full Price . . . $4.95
Exchange Price . . . 3.95

Fit Only the Cars or Trucks Listed Below	MAIN DRIVE GEAR		HIGH AND SECOND GEAR		LOW AND REVERSE GEAR		IDLER GEAR		COUNTER CLUSTER
CHEVROLET									
1933-34 Standard 6 Passenger Cars	61A3443	$3.59	61A3445	$2.49	61A3446	$2.29	61A3447	$2.69	61A3346
1935-36 Standard 6 Passenger Cars	61A3444	3.59	61A3445	2.49	61A3446	2.29	61A3447	2.69	61A3346
1933-36 Master 6 Pass. & ½-Ton Truck	61A8879	3.89	61A8817	2.89	61A8866	2.39	61A8875	2.89	61A8868
1937-39 Master 6 Pass. & ½-Ton Truck	61A3435	3.89	61A3436	2.98	61A3437	2.19	61A3438	2.75	61A3347
DODGE 1933-34, 6 cyl. DP, DQ, DR, DS	61A3517	3.98	61A3518	2.59	61A3523	2.45	61A3522	1.65	61A3355
1935-36 6-cyl. DU, DZ	61A3428	3.98	61A3427	2.98	61A3428	2.95	61A3429	1.65	61A3347
1937-38 6 cyl. D5, D8	61A3426	3.98	61A3427	2.98	61A3426	2.95	61A3431	1.55	61A3347
FORD 1928 Model A Pass. Cars			61A3238	1.29	61A3237	2.19	61A3240	70c	61A3355
1929-31 Model A Pass. & ½ Ton Truck	61A3236	2.59	61A3238	1.29	61A3237	2.19	61A3240	70c	61A3355
1932-34 B, V-8 Pass. & ½ Ton Truck	61A3282	2.49	61A3283	1.65	61A3406	1.45	61 A3285	$1.49	61A3355
1935 V-8 Pass. & ½ Ton Truck	61A3420	2.65	61A3283	1.65	61A3406	1.45	61 A3285	1.49	61A3347
1936-39 V-8 Pass. & ½ Ton Truck (85 HP)	61A3420	2.65	61A3283	1.65	61A3432	1.59	61 A3433	1.39	61A3430
1929-34, AA, BB, 1½-Ton Truck 4 Cyl.	61A3401	3.59	61A3422	2.59	61A3423	4.69	61 A3424	2.79	461 A 3402
1932-36 V-8, 1½ Ton Truck 8 Cyl.	61A3421	2.89	61A3422	2.59	61A3423	4.69	61 A3424	2.79	461 A 3402
1937-40, V-8, 1½ Ton Truck, 8 cyl.	61A3401	3.59	61A3422	2.59	61A3423	4.69	61 A3424	2.79	461 A 3402
PLYMOUTH 1933 6-cyl. PC	61A3517	3.98	61A3518	2.59					
1933-34 6-cyl. PD, PE, PF, PG	61A3517	3.98	61A3518	2.59	61A3523	2.45	61A3522	1.65	61A3355
1935-36 6-cyl. PJ, PI, PZ	61A3426	3.98	61A3427	2.98	61A3428	2.95	61A3431	1.65	61A3355
1937-38 6-cyl. P3, P4, P5, P6	61A3426	3.98	61A3427	2.98	61A3428	2.95	61A3431	1.55	61A3355

Transmission Bearings



61 A 3142—**Short Counter-Shaft Gear Bearing**, 1928-40. A, B, V-8 Ford Cars. Wt. 5 oz. . . . 19c

Transmission Bearing Retai



Die cast—exact replacement of Re **Chevrolet** front transmission bear gasket. Ship. wt. 8 oz.

61 A 8871—Master 6, 1932-36 Cars.
61 A 8872—Standard 6, 1933-36 Car

Heavy Duty Alloy Steel Rear Axle Shafts—50% Off Manufacturers' List Prices — $1.19 and up

Made by a Nationally Known Maker of first quality parts. Duplicate original, Meet S.A.E. specifications. Tested for hardness and metal strength. Fit passenger cars only unless stated. **If your car or truck is not listed, write for prices stating Make, Year, Model, Ser. No., Wheelbase.**

Fit Only Makes, Years and Models Listed	Ship. Wt.	Article No.	Price
CHEV. 1925-29 Cars; ½-Ton Trucks	10 lbs.	461A3802	$1.19
1930-31, Cars and ½-Ton Truck	10 lbs.	461A3803	1.29
1932 BA (Diam. thread end ¾ in.)	10 lbs.	461A3794	1.69
1932 BA (Diam. thread end 13/16 in.)	10 lbs.	461A3795	1.69
1933-35, Std. 6 Cars, 1935, ½ Ton Trucks	12 lbs.	461A3822	3.49
1936 Std. 6 Cars and ½ Ton Trucks	12 lbs.	461A3823	3.69
1933 Master 6 Pass. Cars; 1933-34, ½ Ton Trucks	15 lbs.	461A3824	3.79
1934-35 Master 6 Passenger Cars only	15 lbs.	461A3825	3.49
1931-33, 1½-Ton Truck, M, N, O, NA, NB, NC, ND, OA, OB, OC, OD, BO, Y	24 lbs.	461A3796	3.29
1934-35, 1½-Ton Trucks	28 lbs.	461A3812	3.79
CHRYSLER, 1929-31, 6-cyl., model 66	9 lbs.	461A3800	2.29
1930-31, 6-cyl., CJ, CM (to ser. 6,520,501)	9 lbs.	461A3800	2.29
DE SOTO, 1928-32, 6-cyl., K, SA, CF, 6-75, SC	9 lbs.	461A3800	2.29
DODGE, 1928-30, 6-cyl. DA	9 lbs.	461A3804	$2.29
1933, 6-cyl. model DP	10 lbs.	461A3813	1.98
FORD, 1928-31, A (with gear)	10 lbs.	461A3137	1.89
1932, Model B and V-8 (with gear)	10 lbs.	461A3137	1.89
1935-38, V-8, 60, 85 H.P. Cars, ½ Ton Trucks	10 lbs.	461A3826	2.19
OAKLAND, 1924-32, 6, 8 Cyl.	9 lbs.	461A3806	2.19
OLDSMOBILE, 1924-31, 6-cyl., D, E, F-28, 29, 30	8 lbs.	461A3807	1.98
PLYMOUTH, 1928-32, 4-cyl	9 lbs.	461A3800	2.29
1933, 6-cyl. PC, PD	10 lbs.	461A3813	1.98
PONTIAC, 1926-28, 6-cyl.	10 lbs.	461A3802	1.19
1929-32, Big 6	9 lbs.	461A3806	2.19

Drive Shafts — $1.98

Duplicate originals. Meet S.A.E. and Car Makers' Specifications. Correctly forged, tapered and precision machined for exact fit. Brinell tested at factory for hardness. **If car or truck is not listed write for prices stating Make, Year, Model.** Av. ship. wt. 14 lbs.

461 A 5550—For **Chev.** 1925-28 Models K, V, AA, AB, Pass. . . . $1.98

461 A 5594—For **Chev.** 1929 AC, Pass., ½ ton truck . . . $1.98

461 A 5550—For **Pontiac** 6, 1926-28 . . . $1.98

Save at Wards on Miscellaneous Drive Shaft and Axle Parts for Fords and Chevrolets

Check the condition of your bearings, sleeves, bushings, etc. installing a new axle or drive shaft. At Wards you can do a 100% plete job and save money because our prices are 20% to 50% less usual list prices. We guarantee to satisfy you or refund your m

For Following Pass. Cars	Description	Ship. Wt.	Art. No.
FORD 1928-36 A, B, V-8	(A) Drive Shaft Bearing Cup	1 lb. 4 oz.	61A3157
1928-41 A, B, V-8	(C) Drive Shaft Bearing Sleeve	5 oz.	61A3172
1928-41 A, B, V-8	(B) Drive Shaft Bearing	10 oz.	61A3171
1928-40 A, B, V-8	(L) Rear Axle Shaft Key	2 oz.	61A2508
CHEV. 1916-29	(D) Drive Shaft Housing Bushing	8 oz.	61A5515
1933-35 Std. 6	(D) Drive Shaft Housing Bushing	6 oz.	61A5015
1930-33 ex Std. 6	(E) Drive Shaft Housing Bushing	8 oz.	61A5022
1934-36 Master 6	(G) Drive Shaft Housing Bush. Front	6 oz.	61A5012
1934-36 Master 6	(F) Drive Shaft Housing Bush. Rear	6 oz.	61A5017
1916-32, 4-6-cyl.	(H) Rear Axle Shaft Key	2 oz.	61A5578
1925-31 All 6 cyl.	(J) Rear Axle Shaft Nut	3 oz.	61A5563
1925-31 All 6 cyl.	(K) Rear Axle Shaft Retainer Nut	5 oz.	61A5566



Front Wheel Outer Bearing **56c** AND UP COMPLETE

WARDS FIRST QUALITY BEARINGS AT LOWEST COST

Finest Chrome Alloy Electric Furnace Steel — Duplicate Original Bearing for Quality and Fit — Best You Can Buy, Yet They Cost You 40% to 60% Less

Annular bearings made of S.A.E. No. 52100 Chrome alloy steel. All wheel, differential thrust, and pinion shaft bearings complete with inner cone, balls or rollers, and outer cup. Article Nos. 61 A 788-789 for rear wheel consist of complete inner and outer bearings. If possible check type by comparing number on old bearing with numbers in column marked "Bearing No." in table. Order by Article No. Av. ship. wt. 3 lbs.

Fit Only the Makes, Models Listed Below	Models	Year	FRONT WHEEL OUTER Bear. No.	Art. No.	Price	FRONT WHEEL INNER Bear. No.	Art. No.	Price	REAR WHEEL Bear. No.	Art. No.	Price	DIFFERENTIAL THRUST Bear. No.	Art. No.	Price	PINION SHAFT FRONT Bear. No.	Art. No.	Price	PINION SHAFT REAR Bear. No.	Art. No.
CHEVROLET Pass. Cars, and ½-ton Trucks	All	1925-29	909001	61 A 711	59c	909002	61 A 716	95c	1307	61 A 704	$2.29	0208	61 A 701	$2.15	5305	61 A 702	$2.45	1307	61 A 704
	All	1930-31	909001	61 A 711	59c	909002	61 A 716	95c	1307	61 A 704	2.29	0100	61 A 700	2.15	5206	61 A 703	2.45	1307	61 A 704
	All	1932	909001	61 A 711	59c	909002	61 A 716	95c	1208C	61 A 729	1.79	0100	61 A 700	2.15	5206	61 A 703	2.45	1307	61 A 704
	Standard	1933	909021	61 A 250	56c	909022	61 A 251	82c	C-1R-1500	61 A 252	2.49	0103	61 A 253	2.69	5113	61 A 254	2.89	1106	61 A 255
	Master	1933-34	909001	61 A 711	59c	909002	61 A 716	95c	C-1R-1502	61 A 722	2.49	0100	61 A 700	2.15	5206	61 A 703	2.45	1105	61 A 747
	Standard	1934-35	909021	61 A 250	56c	909022	61 A 251	82c	C-1R-1500	61 A 252	2.49	0103	61 A 253	2.69	5113	61 A 254	2.89	C-1504	61 A 256
	Master	1935-36	909001	61 A 711	59c	909002	61 A 716	95c	C-1R-1502	61 A 722	2.49	0100	61 A 700	2.15	5206	61 A 703	2.45	C-1506	61 A 257
	Master & De Luxe	1937-40	909001	61 A 711	59c	909002	61 A 716	95c	C-1R-1500	61 A 252	2.49	11360	61 A 267	2.59	5306	61 A 744	3.95	C-1506	61 A 257
CHEVROLET 1 and 1½-ton Trucks	Utility Express	1925-29	909001	61 A 711	59c	909002	61 A 716	95c	1309	61 A 709	3.39				5307	61 A 708	4.29	1407	61 A 707
		1930	909001	61 A 711	59c	909002	61 A 716	95c	1309	61 A 709	3.39	0101	61 A 705	3.15	5307	61 A 708	4.29	1407	61 A 707
		1931-32	909023	61 A 712	79c	909024	61 A 717	$1.49	1101	61 A 710	4.95	0101	61 A 705	3.15	5307	61 A 708	4.29	1407	61 A 707
		1933	909023	61 A 712	79c	909024	61 A 717	1.49	1101	61 A 710	4.95	0101	61 A 705	3.15	5309	61 A 741	6.25	1305	61 A 748
		1934-35	909023	61 A 712	79c	909024	61 A 717	1.49	5125	61 A 723	5.95	0101	61 A 705	3.15	5309	61 A 741	6.25	1305	61 A 748
CHEVROLET 1½-Ton Truck	All	1936	909025	61 A 786	79c	909026	61 A 787	1.49	T12051 11786 K12051	61 A 788	9.25	0101	61 A 705	3.15	5309	61 A 741	6.25	1305	61 A 748
	All	1937-39	909025	61 A 786	79c	909026	61 A 787	1.49		61 A 789	9.25	3211-62	61 A 790	3.95	5309	61 A 741	6.25	1305	61 A 748
CHRYSLER	6-cyl., CD	1933	09074-09194	61 A 713	95c				14138-14276	61 A 725	1.49	35175-35326	61 A 738	2.95	3188-3120	61 A 743	2.59	36137-36300	61 A 750
	6, CA, CB, C-6	1934-35	09074-09194	61 A 713	95c	15118-15250	61 A 756	1.59	14138-14276	61 A 725	1.49	35175-35326	61 A 738	2.95	3188-3120	61 A 743	2.59	36137-36300	61 A 750
DE SOTO	6, SA, SC	1931-32	09074-09194	61 A 713	95c				14138-14276	61 A 725	1.49				3188-3120	61 A 743	2.59	3188-3120	61 A 743
	6-cyl. SD	1933	09074-09194	61 A 713	95c				14138-14276	61 A 725	1.49	35175-35326	61 A 738	2.95	3188-3120	61 A 743	2.59	36137-36300	61 A 750
DODGE	All 6	1931-32	09074-09194	61 A 713	95c				14138-14276	61 A 725	1.49				3188-3120	61 A 743	2.59	3188-3120	61 A 743
	6, DP, DQ, HC, HCL	1933	09074-09194	61 A 713	95c	15118-15250	61 A 756	1.59	14125-14276	61 A 731	1.49	35175-35326	61 A 738	2.95	3188-3120	61 A 743	2.59	36137-36300	61 A 750
	6, DR, DS, DU	1934-35	09074-09194	61 A 713	95c	15118-15250	61 A 756	1.59	14138-14276	61 A 725	1.49	35175-35326	61 A 738	2.95	3188-3120	61 A 743	2.59	36137-36300	61 A 750
	D2	1936	09074-09194	61 A 713	95c	15118-15250	61 A 756	1.59	25877-25821	61 A 258	2.49	35175-35326	61 A 738	2.95	3188-3120	61 A 743	2.59	36137-36300	61 A 750
	6 cyl. All	1937-41	09074-09194	61 A 713	95c	14123-14276	61 A 758	1.45	25877-25821	61 A 258	2.49	25580-25520	61 A 739	2.79	31590-31520	61 A 745	2.75	31593-31520	61 A 751
OLDSMOBILE	F, L, 6-8-cyl.	1933	909023	61 A 712	79c	909024	61 A 717	1.49	3104	61 A 730	2.55	0100	61 A 700	2.15	5306	61 A 744	3.95	1307	61 A 704
	6, F-34	1934	909023	61 A 712	79c	909024	61 A 717	1.49	88107	61 A 259	3.69	0100	61 A 700	2.15					
	8, L-34	1934	909023	61 A 712	79c	909024	61 A 717	1.49	3104	61 A 730	2.55	0100	61 A 700	2.15	5306	61 A 744	3.95	1307	61 A 704
	6, F-35, 8, L-35	1935	909001	61 A 711	59c	909032	61 A 261	1.29	88127	61 A 262	4.25	0100	61 A 700	2.15	5856	61 A 263	6.25		
	6-8 Cyl. F-36, L-36	1936	909001	61 A 711	59c	909032	61 A 261	1.29	88127	61 A 262	4.25				5856	61 A 263	6.25		
	6-8 cyl	1937-38	909025	61 A 786	79c	909032	61 A 261	1.29	88128	61 A 266	4.25	11360	61 A 267	2.59	5306	61 A 744	3.95	C-1509	61 A 268
	6-8 cyl	1939	909001	61 A 711	59c	909032	61 A 261	1.29	88128	61 A 266	4.25	11360	61 A 267	2.59	5306	61 A 744	3.95	C-1509	61 A 268
PLYMOUTH	4-cyl., PB, PA 30U	1931-32	09074 09194	61 A 713	95c				14138-14276	61 A 725	1.49				3188-3120	61 A 743	2.59	3188-3120	61 A 743
	6, PC, PD	1933	09074-09194	61 A 713	95c	15118-15250	61 A 756	1.59	14125-14276	61 A 731	1.49	35175-35326	61 A 738	2.95	3188-3120	61 A 743	2.59	36137-36300	61 A 750
	6, PE, PF, PJ, PK	1934-35	09074-09194	61 A 713	95c	15118-15250	61 A 756	1.59	14138-14276	61 A 725	1.49	35175-35326	61 A 738	2.95	3188-3120	61 A 743	2.59	36137-36300	61 A 750
	6, P1, P2	1936	09074-09194	61 A 713	95c	15118-15250	61 A 756	1.59	25877-25821	61 A 258	2.49	35175-35326	61 A 738	2.95	3188-3120	61 A 743	2.59	36137-36300	61 A 750
	6-cyl. All	1937-41	09074-09194	61 A 713	95c	14123-14276	61 A 758	1.45	25877-25821	61 A 258	2.49	25580-25520	61 A 739	2.79	31590-31520	61 A 745	2.75	31593-31520	61 A 751
PONTIAC	6-cyl.	1929-32	909001	61 A 711	59c	909002	61 A 716	95c				0208	61 A 701	2.15	5306	61 A 744	3.95	1307	61 A 704
	6-8 cyl.	1933-35	909001	61 A 711	59c	909002	61 A 716	95c	C-1R-1502	61 A 722	2.49	0100	61 A 700	2.15	5206	61 A 703	2.45	(Early 1935)	61 A 747
	6-8 cyl., Mod. BA	1936	909001	61 A 711	59c	909002	61 A 716	95c	C-1R-1502	61 A 722	2.49	0100	61 A 700	2.15	5206	61 A 703	2.45	C-1506	61 A 257
	6-8 cyl. All	1937-39	909001	61 A 711	59c	909002	61 A 716	95c	88128	61 A 266	4.25	11360	61 A 267	2.59	5306	61 A 744	3.95	C-1509	61 A 268

For Other Cars and Trucks Not Listed in Table Above, Write for Prices, Stating Make, Year and Model of Car or Truck; also give location of bearing and bearing number.

BUY REPAIR PARTS NOW PAY MONTHLY

$2 DOWN ON A $10 TO $14 ORDER

See Inside Back Cover

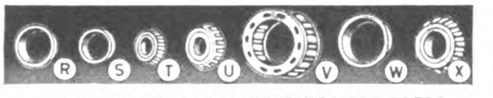
WARDS



Front Wheel Parts for Ford T-TT

For all 1919-27 T-TT models. Exact replacements. Ship. wts. 1 lb. 2 oz., 1 lb., 1 lb. and 5 oz. respectively.

(M) 61 A 2900—Front Hub Outer Bearing and Cup Assembly (Right or Left Wheel) . . . 85c
(N) 61 A 2901—Front Hub Outer Bearing and Cup Assembly (Left Wheel) . . . 52c
(N) 61 A 2902—Front Hub Outer Bearing and Cup Assembly (Right Wheel) . . . 52c
(P) 61 A 2986—Dust Cap for Right or Left Wheel . . . 5c



WHEEL, DIFFERENTIAL BEARINGS FOR FORDS

Fits Pass. Cars and ½ Ton Trucks	Year	Model	Ship. Wt.	Article No.	Price
(U) Fr. Wheel Inner Cone Except 60	1928-40	A B V8	10 oz.	61 A 3151	49c
(R) Fr. Wheel Inner Cup Except 60	1928-40	A B V8	8 oz.	61 A 3152	21c
(T) Fr. Wheel Outer Cone Except 60	1928-40	A B V8	7 oz.	61 A 3153	33c
(S) Fr. Wheel Outer Cup Except 60	1928-40	A B V8	5 oz.	61 A 3154	17c
(V) Rear Wheel Bearing	1928-36	A B V8	1 lb. 14 oz.	61 A 3170	69c
(W) Differential Bearing Cup	1928-32	A B V8	11 oz.	61 A 3155	45c
(X) Differential Bearing Cone Assembly	1928-32	A B V8		61 A 3156	



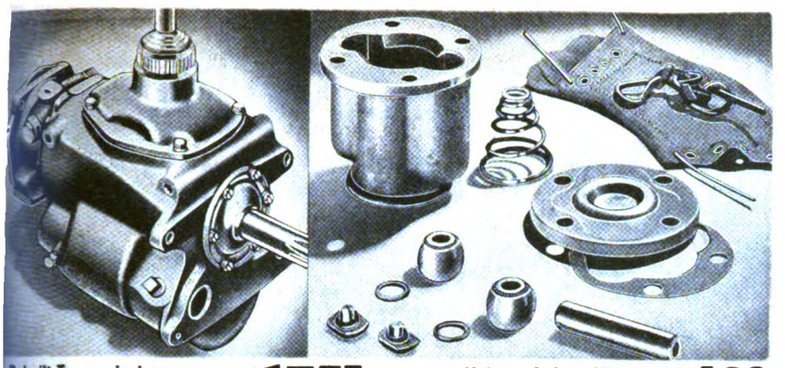
FRONT WHEEL BEARINGS FOR CHEV. Except

Fits Passenger Cars and ½ Ton Trucks only except Standard 6.

Description Bear. No.	Year	Ship. Wt.	Article No.
(A) Cone, Outer 909501	1923-40	3 oz.	61 A 3624
(G) Cone, Inner 909502	1923-40	7 oz.	61 A 3625
(C) Cup, Outer 909601	1923-40	1 lb.	61 A 3627
(D) Cup, Inner 909602	1923-40	8 oz.	61 A 3628
(B) Retainer, Outer 909701	1923-40	4 oz.	61 A 3626
(F) Retainer, Inner 909702	1923-40	6 oz.	61 A 3629
(E) Dust Felt	1923-40	6 oz.	61 A 3630

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EQUIPMENT IN QUALITY AND FIT



Rebuilt Transmissions Trade In Your Old Unit

Low As **$1375** Exch.

All gears, bearings, shafts and other parts showing slight wear are replaced with new first quality parts.

HOW TO ORDER: Send Cash or Down Payment. We send coupon. Return old trans. in same crate, freight prepaid, to Mail Order House. (Case must not be cracked.) State Make, Year, Model, Serial No. Shipped from Factory in Cleveland, O. usually in 5 extra days.

For Models Below	Lbs.	Article No.	Full	Exch.
CHEV. 1929–30, 6, AC, AD	50	M261A2422	$26.75	$24.25
1931, 6, AE Cars	50	M261A2423	26.75	24.25
1932–36, Master Cars	55	M261A2424	33.95	23.95
1937–39, Cars, ½ Ton Trucks	65	M261A2431	33.75	23.75
1929–36, 1½ Ton Trucks	65	M261A2425	34.95	28.95
PLYMOUTH 1933–34	60	M261A2426	34.75	28.75
1935–36, Plymouth 6, Dodge 6, DeSoto 6 Cars	60	M261A2427	39.45	29.45
1937–39, Plymouth 6, Dodge & De Soto 6 Cars	60	M261A2428	41.95	31.95

FORD A 1929–31, with emergency brake on side of transmission cover. Ship. wt. 45 lbs.
M261 A 2420—Full . . $16.25—Exchange . . . $13.75
For Ford 1932–35, B, V-8 Cars. Ship. wt. 49 lbs.
M261 A 2421—Full . . $20.75—Exchange . . . $16.75
For Ford 1936–38 V-8, 85 H.P. Cars. Wt. 50 lbs.
M261 A 2429—Full . . $35.95—Exchange . . . $25.95
For Ford 1935–39 1½-Ton Truck. Ship. wt. 60 lbs.
M261 A 2430—Full . . $35.95—Exchange . . . $25.95

Universal Joint Kit

$498

First quality, same specifications as original equipment. Checked and inspected by factory experts. Precision machined for perfect fit and smooth operation. Kit consists of 1 body, 2 balls with rollers, 1 pin, 1 boot, 2 centering pins, 1 spring, and 1 plate and gasket. Parts will replace original parts used in either front or rear universal joint. Ship. wt. 2 lbs. 8 oz.

61 A 5815—Fits **Chrysler Royal** C16, C18, C22, 1937–41; **DeSoto, Dodge, Plymouth 6,** 1933–41. Complete Kit $4.98

Universal Joint Parts

First Quality—replace original parts perfectly. Meets S.A.E. Standards. Ship. wts.: body, 2 lbs. 4 oz.; boot 2 oz.; ball, 2 oz.; pin, 4 oz.

FOR: Plymouth 4, 1931–32; **Chrysler** 6, late 1931–32; **DeSoto** 6–8, **Olds.** 6, 1928–31; **Dodge** 6–8 (except Senior), 1930–31; **Willys** 4–77, 77A, 1933–37.

61 A 5819—Body $3.29
61 A 5822—Leather Boot 25c
61 A 5821—Ball. 2 required. Each 32c
61 A 5820—Pin 19c

FOR: Plymouth 6; **DeSoto** 6; **Dodge** 6, 1933–41; **Chrysler Royal** C16, C18, C22, 1937–41.

61 A 5823—Body $3.59
61 A 5822—Leather Boot 25c
61 A 5825—Ball with Rollers. 2 required. Ea. . 52c
61 A 5824—Pin 19c



Spring Retainer Seals Tight

Rear Axle Grease Retainers

Replace original outer retainers perfectly but give far better service. Spring controlled molded sealing rings last longer and keep rings tight. Made of stamped steel or leather. Average shipping weight 8 oz.

Fit Cars and ½ Ton Trucks	Article No.	Each
CHEVROLET 1925–32	61 A 3246	19c
1933–36 Master	61 A 5750	23c
1937–41 Master De Luxe	61 A 5750	23c
1933–36 Standard	61 A 5751	23c
1937–41 Master	61 A 5751	23c
FORD 1909–27 Model T	61 A 2263	65c
1909–27 Model TT Truck	61 A 2264	65c
1928–38 A-B-V-8 Cars	61 A 3241	21c
PLYMOUTH, Chrysler, DeSoto and Dodge 1934–41	61 A 3247	39c
PONTIAC 1926–38	61 A 3246	19c

Universal Joint Journal Assembly

First quality—accurately machined and hardened for long service. Consists of journal, 4 bushings, needle rollers, washers. Wt. 1 lb. 2 oz.

61 A 5816—**FOR: Chrysler** 6, 1933, CO, Light 8, CT, 1934, 6, CA, CB; 8, CU, 1935 8, CZ Airstream and C-6 Airstream; **Dodge** 8, 1933, DO; **Lafayette** 1934, 110; **Hudson** 8, 1934, HT, LL; 1935 6, GH, 8, HH, HT, HU; **Olds.** 1934 6, late and 8-L; **Studebaker** A, B, 1934–36; **Terraplane** 6, 1933, K; 8 KT; 1934, 6-K, KU; 1935 6, G, GU $2.95

61 A 5826—**FOR: Hudson** 1936–40; **Hup.** 1936–40; **Studebaker** All 1936–40; **Terraplane** 1936–38 . . . . . $3.29

61 A 5829—**For: Chev.** 6, Cars and ½ Ton Trucks 1940–41 . . . . . $3.49

Universal Joint Discs

Heavy, tough cotton fabric molded in rubber. Be sure to order correct number of Discs. Most cars require six. Ship. wt. each 7 oz.

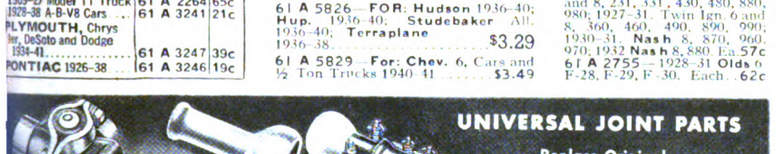
61 A 2750—1920–27 **Studebaker** Lt. and Std. 6; 1924–26 6 cyl. EJ, Em, Er, EU. Each 62c

61 A 2752—1926–30 **Chrysler** 50, 52, 1928–30 **Plymouth** 4 cyl. Each 45c

61 A 2753—1926–30 **Ajax** 6, **Nash** (Lt. and Std.) Ea. . 39c

61 A 2754—1926–31 **Nash** 6 and 8, 231, 331, 430, 480, 880, 980; 1927–31, Twin Ign. 6 and 8, 360, 460, 490, 890, 990; 1930–31, **Nash** 6, 870, 960, 970; 1932 **Nash** 8, 880 Ea. 57c

61 A 2755—1928–31 **Olds** 6, F-28, F-29, F-30. Each . . 62c



UNIVERSAL JOINT PARTS

Replace Original Equipment Perfectly

Drop Forged Steel Universal Joints

$179 and up

(A) First quality like original. Heat hardened for long service. Replaces original equipment perfectly. If your car or truck is not listed write for prices—state make, year, model, serial no. and if front or rear.

Fit Only Makes, Years and Models Listed	Ship. wt.	Article No.	Each
Chevrolet 1925–29 4-6 cyl. Pass. Cars	3 lbs. 10 oz	61 A 5807	$1.79
1925–26 Model R Trucks	3 lbs. 10 oz	61 A 5807	1.79
1930–31 6, Passenger Cars	3 lbs. 12 oz.	61 A 5831	1.79
1932–33, 6 cyl. Models BA, BB, CA, CB, Pass. Cars	3 lbs. 12 oz	61 A 5827	1.79
1933–36 Std. 6, Pass. Cars	2 lbs. 14 oz	61 A 5817	1.89
1934–36 Master 6, Passenger Cars, ½ Ton Trucks	3 lbs. 8 oz	61 A 5818	1.95
1937–39 Master and De Luxe Passenger Cars	3 lbs. 4 oz	61 A 5830	1.98
1925–31 Truck U, C series—RK, LM, LO, LP, LR, LS, LT	3 lbs. 10 oz	61 A 5808	1.89
1934–41 Truck P, Q, R, S, T, AL, AM, W, WC Fits Front or Rear	3 lbs. 8 oz	61 A 5828	2.39
Ford 1909–27 Model T	3 lbs. 8 oz	61 A 2877	1.98
1928–41, A, B, V-8 Pass., AA, Truck Front 1928–29	3 lbs. 8 oz	61 A 2865	1.79
1930–31 AA Truck, Rear, Heavy Duty	3 lbs. 6 oz	61 A 2866	1.95
1932–33 ½-Ton Truck, Front	3 lbs. 4 oz	61 A 2860	4.19
1932–39 1½-Ton Truck, Rear	5 lbs.	61 A 2861	3.29
Pontiac 1926–28 6-cyl.	3 lbs. 10 oz	61 A 5807	1.79
1935–36 All 6 and 8 cyl., 1934 8 cyl.	3 lbs. 8 oz	61 A 5818	1.95

Universal Joint Balls

(B) For Chevrolet Passenger Cars. Replaces original equipment perfectly.

61 A 5556—For 1926–33 except Std. Ship. wt. 2 lbs. 4 oz. $1.19
61 A 5557—For 1934–36 Master 6. Ship. wt. 3 lbs. 1.59

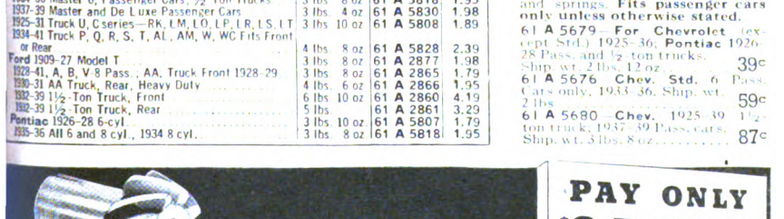
Bell Housing Supports

(C) Stops "slap," ends vibration, saves repairs. Pressed steel. Furnished complete with bolts, nuts, and springs. **Fits passenger cars only unless otherwise stated.**

61 A 5679—**For Chevrolet** (except Std.) 1925–36; **Pontiac** 1926–28 Pass. and ½ ton trucks. Ship. wt. 2 lbs. 12 oz. 39c

61 A 5676—**Chev. Std.** 6 Pass. Cars only, 1933–36. Ship. wt. 2 lbs. 59c

61 A 5680—**Chev.** 1925–39 1½-ton truck; 1937–39 Pass. cars. Ship. wt. 3 lbs. 8 oz. 87c



PAY ONLY $2 DOWN

Do a complete job—$14.00 worth of auto parts for only $2 Down! Select all the parts you need from Wards complete assortment. Use Wards Time Payment Plan.

SEE INSIDE BACK COVER

Wards Supreme Quality Ring and Pinion Gear Sets—Exact Replacements

$349 and up

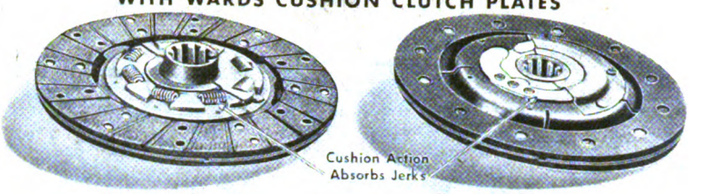
Triple heat treated—the same analysis nickel steel content as specified by S.A.E. Instructions, rivets. Available. Nos. (*) are shipped from Stock; others from Factory near Chicago, Ill. or Central New York, in 3 days. State Make, Year, Model No. of Teeth per Gear.

Fit Only Models Listed	Ship. wt.	Article No.	Per Set
BUICK, 1922–27, 6 cyl., all	15 lbs.	M261A8853	$5.95
1928–36, all models	10 lbs.	M261A8850	13.95
CHEV. 1925–28, 42-11 ratio	7 lbs.	*61A5710	3.49
1925–28, 4 cyl., 46-11 ratio	7 lbs.	*61A8885	3.49
1929, 6 cyl., 42-11 ratio	8 lbs.	*61A8886	4.29
1930–32, 6 cyl., 41-10 ratio	12 lbs.	M261A8888	3.49
1933, Mas. 6 cyl., 37-9 ratio	8 lbs.	M261A8904	6.49
1933–36, Std. 6-cyl. (Pass.)	10 lbs.	M261A8907	6.75
1934–36, Mas. 6-cyl. (Pass.)	10 lbs.	M261A8908	7.29
1937–39, All 6 cyl. (Pass. Cars)	13 lbs.	M261A8911	7.95
1925–32, Truck 4 and 6-cyl.	12 lbs.	M261A8901	9.75
1933–39, Truck, 6 cyl.	12 lbs.	M261A8905	11.75
CHRYSLER, 1924–35, all	10 lbs.	M261A8851	9.95
DE SOTO, 1928–38, 6 cyl.	8 lbs.	M261A8902	9.95
1930–32, 8 cyl., all models	12 lbs.	M261A8874	7.95
DODGE, 1922–27, 4 cyl.	10 lbs.	M261A8852	9.45
DODGE, 1928–32, 6-8 cyl., all	12 lbs.	M261A8874	$7.95
1933–39, 6 cyl., all models	15 lbs.	M261A8855	7.49
ESSEX, 1919–29, 4, 6 cyl.	15 lbs.	M261A8856	5.95
1930–32, 6 cyl.	10 lbs.	M261A8854	9.95
FORD, 1928–32, A, B, V-8 (with threaded pinion) 34-9 ratio	9 lbs.	*61A8900	4.25
1932, V-8, 37-9 ratio (interchangeable with *61 A 8900)	9 lbs.	M261A8906	4.25
1933–37, V-8, 40-48-50-67-68	10 lbs.	M261A8909	8.45
1930–39, AA, BB, V-8, 1½-Ton	15 lbs.	M261A8910	14.25
HUDSON, 1930–38, 6-8 cyl	10 lbs.	M261A8854	9.95
OLDS. 1928–38, 6 and 8-cyl.	12 lbs.	M261A8876	12.95
PLYMOUTH, 1928–39, 4-6 cyl	8 lbs.	M261A8902	9.95
PONTIAC, 6, 1926–28, (46-11)	8 lbs.	*61A8885	3.49
1929–38, 6 and 8 cyl.	12 lbs.	M261A8875	9.75
TERRAPLANE, 1932–38, 6, 8	10 lbs.	M261A8854	9.95

IF YOUR CAR IS NOT LISTED Write for Prices—State Make, Year and Model Number of Car; Number of Teeth on Old Gears.

Smooth Fast Silent Getaway!

WITH WARDS CUSHION CLUTCH PLATES



Supreme Quality—With Industrial Woven Facings

$189 and up

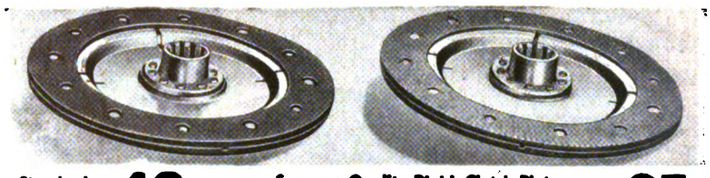
New Improved Helical spring action instead of lever action—gives smoother clutch engagement than Standard Quality at right. Flexible center hub absorbs backlash and vibration due to uneven power impulses. Safety stop assures longer life. Finest industrial woven type facings, give more wear than molded. Heavy drop forged hub broached to S.A.E. Specifications.

Standard Quality—With Molded Facings

$135 and up

Same type plate as on many late model cars. Smoother clutch action than old rigid type because rocker action fingers and flexible cushion center absorb backlash, jerks—deaden vibration. Best Quality molded facings accurately riveted on Drop forged hub—broached to S.A.E. Specifications.

Fits Only Years, Models Listed Below	Ship. Wt.	Supreme	Price	Standard	Price
BUICK 8, Series 40, 1934–38	5 lbs	61 A 2710	$5.95		
CHEV. 1929–32, 6 Pass.; ½-ton Trucks	4 lbs	61 A 2703	1.98	61 A 2742	$1.45
1933–37, Master 6 Pass., ½-ton (Std. 6, 1935–36)	4 lbs	61 A 2703	1.98	61 A 2742	1.45
1932–37, 1½-ton Trucks	5 lbs	61 A 2707	2.49	61 A 2743	1.98
1938–41, 6 cyl. Pass.; ½ Ton Trucks	3 lbs	61 A 2711	2.10	61 A 2748	1.49
CHRYSLER, 1930–31, 6 cyl., CJ	3 lbs			61 A 2744	2.95
DE SOTO, 1929–32, 6 cyl., CK, SA, SC, K6	3 lbs.			61 A 2744	2.95
DODGE, 1930–32, 6 cyl., DD, DH, UF-10, F-10 Trucks	3 lbs.			61 A 2744	2.95
1932–33, 6 cyl., DP, DQ	4 lbs.	61 A 2704	2.98	61 A 2745	2.69
1934–38, 6 cyl. Pass. Cars except D-3, D-4	4 lbs.	61 A 2709	4.69	61 A 2738	3.69
1934–38, Truck, LC, RC, RD	4 lbs.	61 A 2709	4.69	61 A 2738	3.69
FORD, 1929–41, A, B, V8 (Pass. & ½-Ton) except 60 H.P. models	4 lbs.	61 A 2702	1.89	61 A 2740	1.35
1937–40, V-8 60 H.P. Pass. Cars Only	4 lbs.			61 A 2747	1.35
1929–34, 1½-Ton Trucks	4 lbs.			61 A 2741	2.49
1935–41, 1½-Ton Trucks	6 lbs.	61 A 2708	2.49	61 A 2736	1.89
OLDSMOBILE, 1934–39, 6 cyl	3 lbs.			61 A 2739	3.69
PLYMOUTH, 1929–32, 4 cyl	3 lbs.			61 A 2744	2.95
1933–34, 6 cyl., PC, PD, PE, PF, PG	4 lbs.	61 A 2704	2.98	61 A 2745	2.69
1935–39, 6 cyl	4 lbs.	61 A 2705	3.29	61 A 2737	2.69
PONTIAC, 1933–38, 6, 8 cylinder	5 lbs.	61 A 2707	2.49	61 A 2743	1.98



Standard Quality Rigid Clutch Plates

49c and up

With new **Molded** asbestos facings attached—same quality as original equipment. Steel disc and forged hub firmly riveted on. Properly aligned—correctly machined to exact S.A.E. specifications.

61 A 2633—**Chevrolet** 1925–32, 4 & 6 cyl. cars and ½-Ton Truck; 1933–37, Master 6 cyl. cars and ½-ton trucks (Std. 6, 1935–36); **Pontiac 6,** 1926–27. Wt. 2 lbs. 4 oz. 49c

61 A 2632—**For Ford,** 1929–40, A, B, V-8 (Pass. and ½ Ton) except 60 H.P. Wt. 3 lbs. 65c

61 A 2638—**Pontiac,** 1928–31, 6 cyl. after 204,001. Ship. wt. 2 lbs. 14 oz $1.39

Supreme Quality Rigid Clutch Plates

95c and up

With new **Woven** asbestos facings already riveted on—superior to most original equipment plates. Steel discs of proper flexibility give smoother action—no slip—no grab. Drop forged hub—correctly broached and machined to S.A.E. Specifications. **For pass. cars only unless stated.**

Fit Only Makes and Models Listed	Ship. Wt.	Article No.	Price
CHEV., 1925–32, Cars & ½-Ton Trucks	2 lbs. 6 oz.	61 A 2641	95c
1933–37, Master 6-cyl. Cars & ½-Ton Trucks and Standard 6, 1935–36	2 lbs. 6 oz.	61 A 2641	95c
1929–37, 1½-Ton Trucks	3 lbs. 2 oz.	61 A 2643	$1.59
CHRYSLER, 1925–31, 50, 52, CJ	2 lbs. 6 oz.	61 A 2645	1.49
DE SOTO, 1929–33, 6-cyl., K, SA, SC, CK	2 lbs. 6 oz.	61 A 2645	1.49
DODGE, 1930–31, 6-cyl., DD, DH	2 lbs. 6 oz.	61 A 2645	1.49
FORD, 1929–40, A, B, V-8 (Pass. & ½-Ton Trucks) Fits all except 60 H.P. Models	3 lbs. 4 oz.	61 A 2642	1.29
1929–34, 1½-Ton Trucks	3 lbs. 12 oz.	61 A 2644	1.59
HUPMOBILE, 1930–31, 6-cyl., S	2 lbs. 6 oz.	61 A 2645	1.49
OLDS., 1928–32, 6 cyl., F-28 to F-32	2 lbs. 6 oz.	61 A 2645	1.49
PLYMOUTH, 1929–32, 4-cyl.	2 lbs. 6 oz.	61 A 2645	1.49
PONTIAC, 1933–37, 6 and 8-cyl.	3 lbs. 2 oz.	61 A 2643	1.59
1926–27, 6-cyl.	2 lbs. 6 oz.	61 A 2641	95c
ROCKNE, 1932–33, 6-cyl. 65, 10	2 lbs. 6 oz.	61 A 2645	$1.49
WILLYS, 1930–32, 90, 97, 98B, 98D, C-113	2 lbs. 6 oz.	61 A 2645	1.49



Clutch Pressure Plates—Liberal Allowance for Old One

$195 and up Exch.

Completely reconditioned—"Good-as-new." New springs and other parts assembled by factory experts. Clutch plates not included. Two ordering plans: (1) For Full Price: Send order and remittance for full price plus postage. We send coupon good for $1.00 when old assembly is sent later Prepaid to Wards Mail Order House. (2) For Exchange Price: Send old assembly Postpaid and remittance for exchange price plus postage.

Fits Only Years, Models Listed	Lbs.	Article No.	Full	Exch
CHEV. 1929–31, Pass., ½-Ton Truck	21	461 A 2762	$4.25	$3.25
1932–33, Master 6 Pass., ½ and 1½-Ton Trucks	23	461 A 2763	4.45	3.45
1934–37, Master 6, Pass., Trucks	21	461 A 2757	4.95	3.95
1935–36, Standard 6	21	461 A 2757	4.95	3.95
1938–41 Pass. Cars, ½ Ton Trucks	22	461 A 2712	6.49	5.49
CHRYSLER, 1930–31, 6-cyl., CJ from 6,513,250 to 6,520,171	13	561 A 2764	4.75	3.75
DE SOTO, 1931–32, 6, CK, SA, SC	13	561 A 2764	4.75	3.75
DODGE, 1930–32, 6-cyl. DD, DH (DD—after engine 31839)	13	561 A 2764	4.75	3.75
1933, DF, Truck TDP 119, 111	13	561 A 2765	4.45	3.45
1934, Truck KC, KCL	13	561 A 2767	4.45	3.45
1935, Truck, KC, KCL	14	561 A 2766	4.45	3.45
FORD, 1929–34, A, B, V-8, Pass. Cars	16	461 A 2760	2.95	1.95
1929–34, ½ and 1½-Ton Trucks	16	461 A 2761	3.25	2.25
1935–41, V-8, Pass. & ½ Ton (Ex. 60)	12	561 A 2758	3.25	2.25
1937–40, V-8 60 H.P. Pass. Cars	12	561 A 2700	3.25	2.25
1935–41, V-8, 1½-Ton Trucks	19	461 A 2759	3.95	2.95
PLYMOUTH 1929–32, 4-cyl. 30U after U-258836, PA, PB	13	561 A 2764	4.75	3.75
1933, 6-cyl., PC, PD	13	561 A 2765	4.45	3.45
1934 6-cyl., All Pass. Cars	13	561 A 2767	4.45	3.45
1935–39, 6-cyl., All Pass. Cars	14	561 A 2766	4.45	3.45
PONTIAC, 1935–36, 6 and 8-cyl	21	461 A 2701	6.49	5.49

Clutch Fork Assemblies

Consists of complete Clutch Throwout bearing and Fork with other required parts for installing

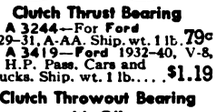
61 A 5687—For **Chevrolet** 1931–33 (Ex. std. 6) Pass. cars; 1931–37 Trucks; **Pontiac** 1935–36, 6 cyl. Pass.; 1933–36, 8-cyl. Pass. Ship. wt. 2 lbs. 8 oz. $1.49

61 A 5688—**Chev.** 1934 Master 6, Pass. Ship. wt. 2 lbs. 4 oz. . $1.49

61 A 5689—For **Chevrolet** 1931–33 Std. Master 6 Pass. Cars. Ship. wt. 2 lbs. 4 oz. $1.49

61 A 5690—For **Chev.** 1938–39 Pass. Cars. Ship. wt. 3 lbs. . $3.19

61 A 5691—For **Chev.** 1938–40. ½, ¾ and 1 ton Trucks. Ship. wt. 3 lbs. $3.19



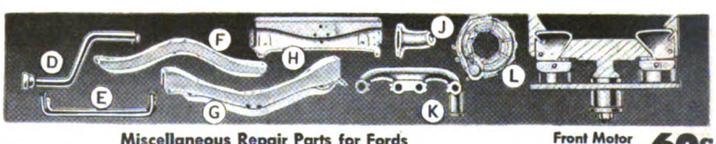
Clutch Thrust Bearing

61 A 3244—For **Ford** 1929–31, A-AA. Ship. wt. 1 lb. . . 79c

61 A 3419—**Ford** 1932–40, V-8, 85 H.P. Pass. Cars and Trucks. Ship. wt. 1 lb. $1.19

Clutch Throwout Bearing with Oiler

61 A 5621—For **Chev.** 1929–37, All, exc. Std. 6. Wt. 12 oz. . . . 72c



Miscellaneous Repair Parts for Fords

Fits Only Models Listed	Year	Model	Ship. Wt.	Article No.	Price
(D) Crank and Wrench	1928–31	A	2 lbs. 8 oz.	61 A 3180	35c
(D) Crank and Wrench 85 H.P.	1932–34	V-8	3 lbs. 6 oz.	61 A 3459	49c
(D) Crank and Wrench 85 H.P.	1935–36	V-8	3 lbs. 14 oz.	61 A 3460	49c
(D) Crank and Wrench 85 H.P.	1937–40	V-8	4 lbs. 8 oz.	61 A 3457	49c
(H) Frame Front Member	1928–31	A	12 lbs.	461 A 3250	$1.49
(G) Frame Front Member	1933–34	V-8	16 lbs.	461 A 3411	2.29
(G) Frame Front Member	1935–39	V-8	16 lbs.	461 A 3333	1.69
(F) Rear Frame Member	1928–31	A	16 lbs.	461 A 3334	2.10
(E) Rear Bumper Arm Cross Brace	1928–31	A	4 lbs.	561 A 3258	65c
(K) Exhaust Manifold	1928–31	A-AA	10 lbs.	561 A 3234	$1.29
(J) Cyl. Head Outlet Conn.	1928–29	A-AA	1 lb. 8 oz.	61 A 3144	19c
(J) Cyl. Head Outlet Conn.	1930–31	A-AA	2 lbs. 6 oz.	61 A 3159	21c
(L) Flywheel Housing	1928–31	A-AA	22 lbs.	461 A 3208	$2.79

Front Motor Supports

60c As

Heavy full floating front motor support for Ford A-AA, 1928–31. Floats the entire front end on two big blocks of rubber. Replaces original equipment coil spring. Helps reduce noise and gives smoother motor performance to car or truck. Ship. wt. 14 oz.

61 A 2660—With fittings 60c

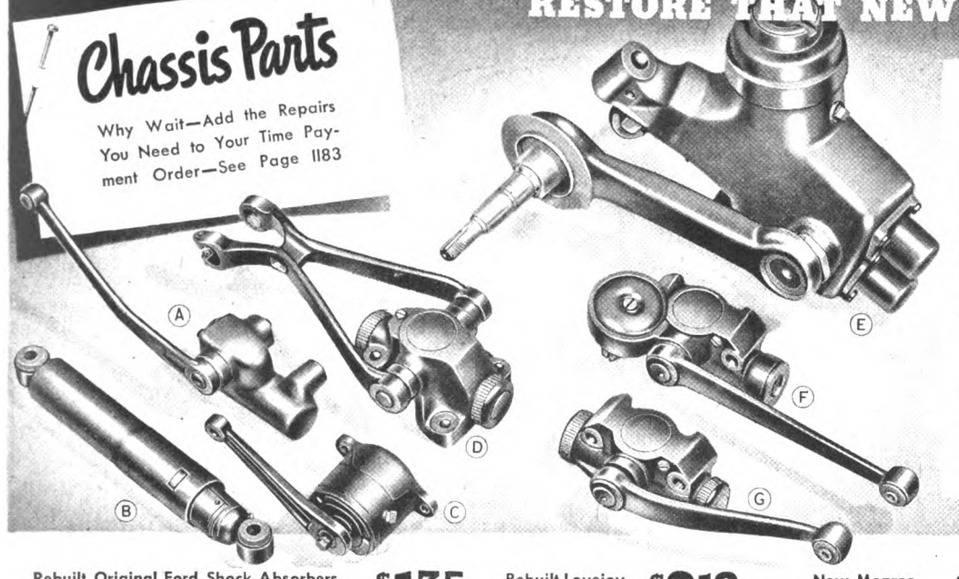
CB As **WARDS 961**

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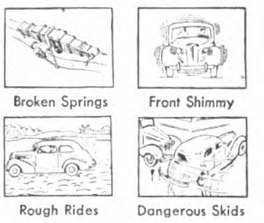
RESTORE THAT NEW CAR RIDING THRILL!

Chassis Parts

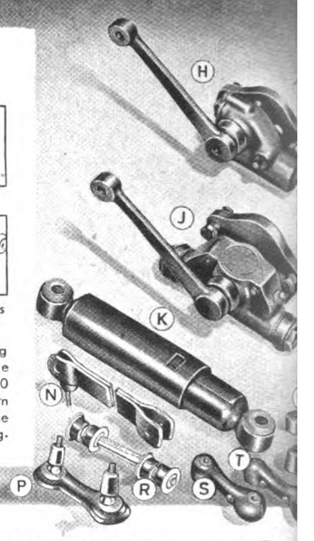
Why Wait—Add the Repairs You Need to Your Time Payment Order—See Page 1183



Worn Shock Absorbers Cause



Most Shock Absorbers Need Refilling Every 5,000 Miles—If Yours Have Not Been Serviced in the Last 10,000 Miles, the Chances Are They Are Worn Out. Check Them Now and Replace Worn Ones to Restore New Car Riding.



Rebuilt Original Ford Shock Absorbers — $1.35 Exch.

For Ford A-B

© All worn parts replaced. Filled with fluid. Liberal allowance for old ones. **Important:** When returning old unit, retain old arms and links (except 61 A 6396-97, 6402-3-4-5-6-7-8-9 where arm is not removable).

How to Order: Send old Shock Absorber, *Postpaid*, and "Exchange price." (Include postage for rebuilt absorber) or Send Full Purchase price, *postage*. (Return old absorber, *Postpaid* for refund.)

Ship. Wt. 6 lbs. 12 oz.	For	Article No.	Full	Exch.	Article No.	Full	Exch.
		For Ford A-B 1928-32			**For Ford V-8 1933**		
FRONT	Right	61 A 6411	$1.55	$1.35	61 A 6395	$1.90	$1.55
	Left	61 A 6412	1.55	1.35	61 A 6394	1.90	1.55
REAR	Right	61 A 6412	1.55	1.35	61 A 6395	1.90	1.55
	Left	61 A 6411	1.55	1.35	61 A 6394	1.90	1.55
		For Ford V-8 1934			**For Ford V-8 1935**		
FRONT	Right	61 A 6396	$2.20	$1.55	61 A 6406	$2.25	$1.60
	Left	61 A 6397	2.20	1.55	61 A 6407	2.25	1.60
REAR	Right	61 A 6395	1.90	1.55	61 A 6346	2.25	1.60
	Left	61 A 6394	1.90	1.55	61 A 6347	2.25	1.60
		For Ford V-8 1936			**For Ford V-8 1937-41**		
FRONT	Right	61 A 6408	$3.00	$1.60	61 A 6402	$3.38	$1.98
	Left	61 A 6409	3.00	1.60	61 A 6403	3.38	1.98
REAR	Right	61 A 6346	2.25	1.60	61 A 6404	4.38	1.98
	Left	61 A 6347	2.25	1.60	61 A 6405	4.38	1.98

Arms Only—(No Exchange) For Pass. Cars Only

61 A 6413—For Ford A, B Right or Left Front. Wt. 1 lb. 2 oz. 28c
61 A 6414—For Ford A, B Right or Left Rear. Wt. 1 lb. 2 oz. 28c
61 A 6410—For V-8 1935-36, Right or Left Rear. Wt. 1 lb. 12 oz. 45c

Ⓑ Replacement Rebuilt Direct Action Shock — $1.85 Exch

Use same Exch. Plan as above. With bushings. Wt. 6 lbs.

61 A 6355—**Rear.** DeSoto, Dodge, Plymouth, Chrysler 1937-40. Full Price Each..... $2.35; Exchange Price Each..... $1.85

61 A 6356—**Front.** Dodge, Plymouth 1937-38. Full Price Each..... $2.35; Exchange Price Each..... $1.85

61 A 6357—**Front.** Chry., DeSoto 1938-40; Dodge, Plym. 1939-40. Full Price Each..... $2.35; Exchange Price Each..... $1.85

Rebuilt Lovejoy Shock Absorbers — $2.19 Ea. and up

Replace original equipment on cars using this type. Liberal Allowance for Old Shocks if castings are not broken. Remove links. **State Make, Year, Model of car** as well as location of shock. Use exchange plan at left. Wt. 7 lbs. **All Shipped from Factory** in Chicago in 5 additional days.

Ⓐ **Rebuilt Single Action Lovejoy.** For all Cars equipped with single action Lovejoy Type Shock Absorbers.
M261A6437—Front. Price Each, Full Price..$2.84; Exch. Price.$2.19
M261A6438—Rear. Price Each, Full Price..$2.84; Exch. Price.$2.19

ⒻⒼ **Rebuilt Double Action Lovejoy.** For all cars originally equipped with double action Lovejoy Type Shocks. Ship. wt. 14 lbs.
M261A6439—Front. Price Each, Full Price $4.94; Exch. Price.$3.79
M261A6440—Rear. Price Each, Full Price..$4.94; Exch. Price.$3.79

Ⓔ **Rebuilt Knee Action Unit.** Duplicate original. For Chevrolet Master, 1934-38; Pontiac 6, 1934; Pontiac 8, 1934-36. State Make, Year, Model, if for Left or Right.
261A6441—Ship. wt. 57 lbs. Sold Each. Full Price.$13.95; Exch. Price.$9.95

Ⓓ **Rebuilt Knee Action Front Shock Absorbers.** For all cars using this type of Shock Absorber, except 1934 Plymouths, Dodges, Chryslers, all Cadillacs. State Make, Year, Model, if for Left or Right.
M261A6442—Ship. wt. 15 lbs. Each. Full Price..$6.45; Exch. Price.$4.95

New Monroe Single Action — $5.95 Pair and up

Ⓗ Guaranteed 4,000 Miles or 90 days. Replaces original perfectly. Filled with fluid. Ship. wt. pair 10 lbs.

New Monroe for Ford V-8 1935-36
61 A 6388—**Front.** Pair..... $5.95
61 A 6389—**Rear.** Pair..... 5.95

For Ford V-8 1937-40; Mercury 1939-40
61 A 6390—**Front.** Pair..... $5.95
61 A 6391—**Rear.** Pair..... 5.95

Ⓙ **New Monroe Double Action—For Ford 1928-41; Mercury 1939-41**
Guaranteed 1 year or 10,000 miles. Replaces single action type. Self-adjusting to temperatures. Fits present holes in frame. Filled with fluid. **State Make, Year of car. Shipped from Factory** in Chicago usually in 5 additional days. Wt. pr. 14 lbs.
M261 A 6378—**Front.** Pair.... $8.95
M261 A 6379—**Rear.** Pair..... 8.95

New Monroe Double Action for Chev. 1930-37, Plymouth 1930-35
Guaranteed 1 year or 10,000 miles. Order same as above.
M261A6398—Chev. 1930-37. Front. Pair. $8.95
M261A6399—Chev. 1934-40. Front. Pair $20.95
M261A6374—Chev. 1937-39. Rear. Pair 20.95
M261A6392—Dodge 1933-40. Front. Pair 20.95
M261A6393—Dodge 1933-35. Rear. Pair 20.95
M261A6369—Ford 1933-40. Front. Pair 20.95
M261A6370—Ford 1935-39. Rear. Pair 20.95

New Monroe Heavy Duty Double Action for 1½-Ton Trucks
State Make, Year, Model of Truck.
M261A6379—Chev. 1934-40. Front. Pair $20.95
M261A6374—Chev. 1937-39. Rear. Pair 20.95
M261A6392—Dodge 1933-40. Front. Pair 20.95
M261A6393—Dodge 1933-35. Rear. Pair 20.95
M261A6369—Ford 1933-40. Front. Pair 20.95
M261A6370—Ford 1935-39. Rear. Pair 20.95

Ⓚ New Monroe Direct Action — $8.9 Pr

Guaranteed 1 year or 10,000 miles. Replace original with this new Airplane type. With fluid. Ford Shock Absorbers furnished with brackets. St **Make, Year of Car. Shipped from Factory** in Chicago additional days. Wt., ea. 6 lbs., pair 12 lbs.
M261A6375—Front. Pair Ford 1935-40, Mercury 1939-40 $8
M261A6376—Rear. Pair Ford 1935-40, Mercury 1939-40. 8
61A6382—Front. Chrysler C-14, 16; DeSoto 1937. Each 2
61A6383—Front. Plymouth, Dodge 1937-38. Each. 2
61A6384—Front. Plymouth, Dodge 1939-41. Each. 2
61A6384—Front. Chrysler, DeSoto 1938-41. Each. 2
61A6385—Rear. Plym., Dodge, DeSoto, Chrys. 1937-41. Ea 2
M261A6388—For other cars using this type shock. St Make, Year, Model, Ser. No. of car; if for front or r **Shipped from Chicago** Factory in 5 days. Wt. 6 lbs. Ea. $2

Shock Absorber Accessories and Fluid

Ⓜ **Rubber Grommets.** Replace original on direct act shocks on Chrys., DeSoto, Dodge, Plym. 1937-41.
61A6377—Set of 8 for 2 shocks, front or rear. Wt. 8 oz 5

Replacement Shock Links. Bushings where required

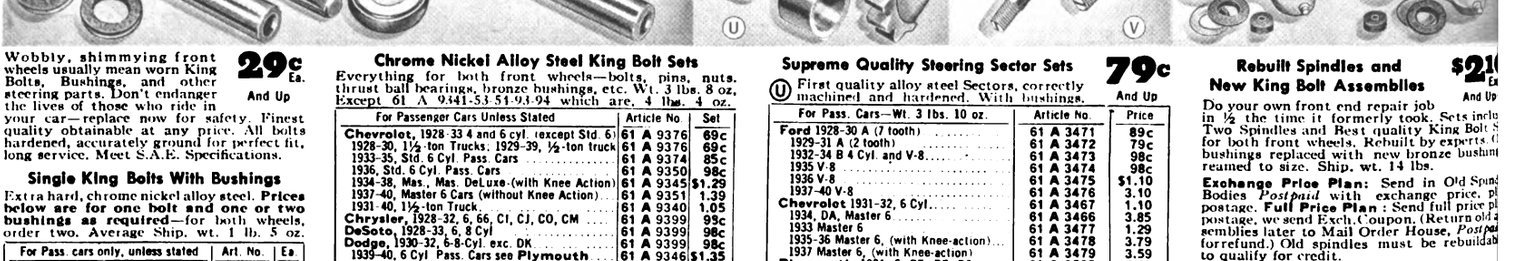
	Av. wt. 1 lb.	Exc
(N) Chevrolet 1933-35, 1938-40, Front Shock Absorber Link with Pin. (Except Std. 6)	61 A 5519	39
(N) 1930-36, 1938-40, Rear Link, Pin. (Exc. Std. 6)	61 A 5520	39
(T) Ford 1928-33, All, Opening opposite sides	61 A 3233	23
(S) 1934-35, V-8 All, Opening same side	61 A 3290	23
(P) 1936 V-8 Front and Rear Late 1937-40, Rear	61 A 2506	23
(P) 1937-40 Ford V-8, 1939-40 Mercury Front, Lincoln-Zephyr 1939; Front, Rear; 4 in. bolt to bolt	61 A 2654	29

Ⓡ **Stabilizer Link Assembly**—for all G.M. Cars 1939-41.
61 A 5518—Ship. wt. 6 oz. Each..... 5



Wards Supreme Shock Absorber Fluid

61 A 9537—For Houdaille (old type). Ship. wt. 1 lb. 10 oz. Pint can..... 3
61 A 9547—For Houdaille. Thermo-Static type Ford 1928-41. Ship. wt. 2 lbs. Pint can..... 3
61 A 9538—For Lovejoy, Monroe and all other type Shock Absorbers and Knee action. Ship. wt. 2 lbs. 14 oz. Quart can..... 4



29c Ea. And Up

Wobbly, shimmying front wheels usually mean worn King Bolts, Bushings, and other steering parts. Don't endanger the lives of those who ride in your car—replace now for safety. Finest quality obtainable at any price. All bolts hardened, accurately ground for perfect fit, long service. Meet S.A.E. Specifications.

Single King Bolts With Bushings

Extra hard, chrome nickel alloy steel. **Prices below are for one bolt and one or two bushings as required**—for both wheels, order two. Average Ship. wt. 1 lb. 5 oz.

For Pass. cars only, unless stated	Art. No.	Ea.
Buick 8-50, 1931 Standard 6, 1925-30, Series 60-8 Cyl. 1931-33	61 A 9395	63c
Series 40-8-Cyl 1934-40	61 A 9389	89c
Chevrolet 4-cyl 1921-27	61 A 9380	29c
Dodge 128, after A-998614, Std Vic. DA 6-cyl 1927-29	61 A 9384	59c
Essex 6, 974563 and up, 1929-32	61 A 9392	42c
Ford T-TT, 1909-27 (with oiler)	61 A 2839	29c
Hudson, 8, LL, LT, 1934-36	61 A 9361	45c
Oakland, 8, 1930-31	61 A 9395	63c
Oldsmobile 6-8 cyl., 1926-33	61 A 9395	63c
Pontiac 6, 1926-27	61 A 9380	29c
8, 1932	61 A 9395	63c
Terraplane 6 cyl. K, KU, KS, G U, 8 cyl. KT 1932-36	61 A 9361	45c
Whippet 4 and 6, 96, 96A, 93A, 98, 98A, 1926-30	61 A 9388	82c
Tie Rod Bolts With Bushing Ship. wt 8 oz.		
Chevrolet 4, 1923-28	61 A 9396	17c
Ford T-TT, 1909-27	61 A 2840	14c
Pontiac 1926-28	61 A 9398	17c

Chrome Nickel Alloy Steel King Bolt Sets

Everything for both front wheels—bolts, pins, nuts, thrust ball bearings, bronze bushings, etc. Wt. 3 lbs. 8 oz. Except 61 A 9441-53-54-93-94 which are, 4 lbs. 4 oz.

For Passenger Cars Unless Stated	Article No.	Set
Chevrolet, 1928-33 4 and 6 cyl. (except Std. 6)	61 A 9376	69c
1928-30, 1½-ton Trucks; 1929-39, ½-ton truck	61 A 9376	69c
1933-35, Std. 6 Cyl. Pass. Cars	61 A 9374	85c
1936, Std. 6 Cyl. Pass. Cars	61 A 9350	98c
1934-38, Mas., Mas. DeLuxe-(with Knee Action)	61 A 9345	$1.29
1937-40, Master 6 Cars (without Knee Action)	61 A 9351	1.39
1931-40, 1½-ton Truck	61 A 9340	1.05
Chrysler, 1928-32, 6, 66, CI, CJ, CO, CM	61 A 9399	99c
DeSoto, 1928-33, 6, 8 Cyl	61 A 9399	98c
Dodge, 1930-32, 6-8 Cyl. exc. DK	61 A 9399	98c
1939-40, 6 Cyl. Pass. Cars see **Plymouth**	61 A 9346	$1.35
1932-40 1½ Ton Truck	61 A 9393	2.79
Ford, 1928-31 A Pass. Cars, ½-ton Trucks	61 A 9375	1.17
1928-29, AA—1½-ton Trucks	61 A 9375	1.17
1932-34, B, V-8 Pass. Cars, ½-ton Trucks	61 A 9342	1.17
1935-36, V-8 Pass. Cars, ½-ton Trucks	61 A 9344	1.25
1937-40, V-8 Pass. Cars, 60, 85 H.P.	61 A 9352	1.25
1930-34, All 1½-ton Trucks	61 A 9341	1.59
1935-37, V-8, 1½-ton Trucks, All Models	61 A 9353	1.79
1938-40, V-8 1½-ton Trucks, All Models	61 A 9354	2.10
Hudson 1934-36, **Terraplane** 1932-36, 6 Cyl	61 A 9358	2.49
1937-38, 6-8 Cyl.; **Terraplane** 1937-38, 6 Cyl	61 A 9359	2.79
International Truck Series M, A, B, C, D	61 A 9394	2.79
Oldsmobile, 1926-33, 6-8 Cyl	61 A 9356	2.10
Plymouth, 1928-32, 4 Cyl	61 A 9399	98c
1933, 6 Cyl. PC, PD	61 A 9343	$1.09
1934, 6-Cyl. Model PE, PF, PG.	61 A 9346	1.35
1935-37, 6 Cyl. All, **Dodge** 6, 1935-37, Pass.	61 A 9347	1.29
1938-40, 6 Cyl. All Models	61 A 9355	1.29
Pontiac, 1928-32, 6 Cyl	61 A 9376	69c
1934-36, 6-8 Cyl (With Knee Action)	61 A 9345	$1.29
1937-39, 6-8 Cyl.; **Olds.** 1937-39, 6-8 Cyl.	61 A 9357	1.69
Willys, 1933-36, 4 Cyl	61 A 9378	1.29
1937-39, 4 Cyl	61 A 9379	1.19

Supreme Quality Steering Sector Sets — **79c** And Up

Ⓤ First quality alloy steel Sectors, correctly machined and hardened. With bushings.

For Pass. Cars—Wt. 3 lbs. 10 oz.	Article No.	Price
Ford 1928-30 A (7 tooth)	61 A 3471	89c
1929-31 A (2 tooth)	61 A 3472	79c
1932-34 B 4 Cyl. and V-8	61 A 3473	98c
1935 V-8	61 A 3474	98c
1936 V-8	61 A 3475	$1.10
1937-40 V-8	61 A 3476	3.10
Chevrolet 1931-32, 6 Cyl.	61 A 3467	1.10
1934, DA, Master 6	61 A 3466	3.85
1933 Master 6	61 A 3477	1.29
1935-36 Master 6, (with Knee-action)	61 A 3478	3.79
1937 Master 6, (with Knee-action)	61 A 3479	3.59
Plymouth 1934, 6, PE, PF, PG.	61 A 3585	4.10
1935 6, PJ	61 A 3586	4.10
1936 6, P1, P2	61 A 3587	4.10

Supreme Quality Tie Rod Ends — **67c** And Up

Ⓥ First quality drop forgings—perfect replacements of original.

Av. ship. wt. 1 lb. 8 oz.	End	Article No	Price
Ford 1935-39 V-8, Pass., ½-1 Ton Trucks	Right	61 A3415	67c
1935-39 V-8, Pass. Cars, ½-1 Ton Trucks	Left	61 A3416	67c
1936-39 V-8 1½-Ton Truck	Right	61 A3482	89c
1936-39 V-8 1½-Ton Truck	Left	61 A3483	89c
Chevrolet 1928-39 Pass. (Except Std. 6)	Right	61 A3484	95c
1928-29 Pass. Cars (Except Std. 6)	Left	61 A3485	95c
1935-40 1½-Ton Truck (Ex. Cab over Eng.)	Right	61 A3487	98c
1935-40 1½ Ton Truck (Ex. Cab over Eng.)	Left	61 A3486	98c
Dodge 1934-38 All 6 Cyl. Pass. Cars	Right	61 A3489	$1.19
1934-38 All 6 Cyl. Pass. Cars	Left	61 A3488	1.19
Plymouth 6, 1934-38 except PE, PF	Right	61 A3489	1.19
6, 1934-38 except PE, PF	Left	61 A3488	1.19
Pontiac 1930-36 (All Models)	Right	61 A3484	95c
1930-36 (All Models)	Left	61 A3485	95c

Rebuilt Spindles and New King Bolt Assemblies — **$2.1** Ea. And Up

Do your own front end repair job in ½ the time it formerly took. Sets inclu Two Spindles and Best quality King Bolt S for both front wheels. Rebuilt by experts. (bushings replaced with new bronze bushi reamed to size. Ship. wt. 14 lbs.

Exchange Price Plan: Send in Old Spind Bodies *Postpaid* with exchange price, pl postage. **Full Price Plan:** Send full price pl postage, we send Exch. Coupon. (Return old a semblies later to Mail Order House, *Post* for refund.) Old spindles must be rebuilda to qualify for credit.

Items keyed M261 shipped separately fr near Chicago usually in 5 additional days.

Fits Only Pass. Cars and ½ Ton Trucks	Article Number	Full Price	Exch. Price
Ford, 1928-31, Model A	461A9439	$3.45	$2.4
1932-34, V-8	461A9440	3.65	2.4
1935, V-8	M261A9441	4.19	2.7
1936, V-8	M261A9442	4.29	2.7
1937-40, V-8	M261A9443	4.65	2.8
Chevrolet, 1929-39 (ex. Std. 6 and Knee Action)	461A9444	3.10	2.1

BUY ON TIME PAYMENTS

Order All the Repair Parts You Need Nov on One Time Payment Order. Make th Small Down Payment and Pay the Balanc Monthly. See Inside Back Cover.



Radius Rod Ball, Cap Set

For all Ford A-AA, 1928-31 cars, trucks. Ball socket, ball cap, 2 springs, 2 cap bolts, 2 sleeves, 2 nuts. Wt. 1 lb. 4 oz.
61 A 3249—Set... 32c

Rubber Bushed Radius Rod Ball Cap Set. With rubber bushing, socket and nuts. Wt. 1 lb.
61 A 2549—For Ford V-8 1932-41. Set... 20c

Knee-Action Rod and Bracket Assembly

For Knee-action replacement on Chevrolet 6, 1934-38. Fits either right or left side. Wt. 2 lbs. 14 oz.
61A5900.$1.98

Knee-Action Rod Seal Kit

With Brake Flange Bushing, Packings, Fittings. Replace original equipment perfectly. For Chevrolet 6, 1934-38. Wt. 9 oz.
61 A 5901—Kit for 1 wheel.79c

Knee-Action Reamer

Abrasive type Reamer for use when installing 5901 knee-action rod seal kit.
61 A 5678—Ship. wt. 8 oz..... 35c

Spring Hanger Sets
For Ford Pass. and ½-ton Trucks

Sets for Ford A drilled for ⅛-in. grease fitting. (No Fittings.) With all bushings (rubber for V-8), bars and nuts. Wts., front 4 lbs. 6 oz.; rear, 2 lbs. 2 oz.
(A) 61 A 3403—Front V-8, 1932-36, Ex. 1935 and ½-ton Truck 1932..... 79c
(A) 61 A 3404—Front V-8, 1937-40. 79c
(A) 61 A 3405—Rear V-8, 1932-36, Ex. 1935 and ½-ton Truck 1932..... 79c
(A) 61 A3407-Rear V-8, 1935-1937-40. 79c
(A) 61 A 3408—Front 1½ ton 1935-40..... $1.49
(B) 61 A 3296—Front A, 1928-31... 42c
(B) 61 A 3297—Rear A, 1928-31... 45c

Spring Shackle Sets for Chev.

© For 1930-33 all Pass., ½-ton trucks; 1934-35 Std. Bars. Bolt, Nut Lock. Use with Pin (W). For 1 spring. Ave. wt. 1 lb. 14 oz.
61 A 5796—Front..... 37c
61 A 5797—Rear..... 39c

Ⓓ For 1934-41 Pass., ½-ton (Ex. 1934-35 Std. and 1939-41 rear) Shackles, Bushings, Pins, Cork Washers, Bolt, Nut.
61 A 5794—Front..... 45c
61 A 5795—Rear..... 52c

Ⓔ 61 A 5649—**Shackle Pin** for 5796-7. Two needed per spring. Wt. 7 oz. Pair..... 14c

Spring Hangers, Perches and Shackle Parts

Description	Year	Ship. Wt. Lbs	Ship. Wt. Oz.	Article Number	Price
(F) **FORD A**, Front Spring Perch	1928-31	1	6	61 A 3181	65c
(G) T-TT, Spring Hanger (Front)	1909-27		6	61 A 2988	17c
(G) T, Spring Hanger (Rear)	1909-27		10	61 A 2989	19c
(H) **CHEV.** Shackle, Rear (Pass.)	1926-29		8	61 A 5647	15c
(J) Shackle, Front Spring (Pass.)	1926-29		7	61 A 5648	14c
(K) Front Spring Hanger and Rear Upper Shackle Bushing (Pass.)	1923-29		2	61 A 5631	8c
(K) Spring Eye Bush., Front, Rear (Pass. cars only)	1916-33		4	61 A 5630	8c
(L) Shackle Bolt, Front, Rear, (Pass.)	1925-28		6	61 A 5606	8c
(L) Shackle Bolt, Front, Pass	1929-33		6	61 A 5606	8c

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PERFECT FIT SPRINGS AND MAIN LEAVES

For All Cars and Trucks





Machine Formed, Oil Tempered, Hardened for Uniform Strength.



Electric-Heat Cured for Proper Resiliency and Toughness.



Break-down Flexing Test Assures Long, Trouble-free Service.



Checked for Arch—Must be Proper Shape for Correct Fit.

SEE WHAT YOU SAVE

Front Springs	Dealers' Price	Wards Price	You Save
Ford A	$3.80	$1.69	$2.11
Ford V-8	4.95	2.25	2.70
Chev. 1933	5.50	2.55	2.95
Plymouth 1936	5.50	2.95	2.55
Dodge 1936	5.50	3.25	2.25
Nash 1936	7.70	4.69	3.01
Pontiac 1935	4.60	3.25	1.35
Hudson 1936	5.50	3.25	2.25

Costs You ½ Car Maker's Replacement Prices!

For Smoother Riding Always Replace Springs in Pairs.
Required Bushings Furnished with all Springs and Main Leaves.

ards Replacement Springs duplicate the original equipment on your r in materials, workmanship, size, shape and FIT. Made of toughest A.E. Silico Manganese Alloy Steel (except certain types for Fords hich are Carbon Steel like original). See pictures above.

FOR FORDS—AS LOW AS $1.49

ll Springs for 1932-40 Ford Fitted with Rubber Bushings. verage ship. wt. Main Leaves, front 6 lbs., rear 10 lbs.

Year	Fits only Models Listed	Loc.	Lbs.	Complete Spring		Main Leaf Only	
928-31	A, 10-Leaf (Standard Type)	Front	21	461 A 490	$1.69	M261 A 552	49c
928-31	A, 10-Leaf (Light Type)	Front	20	461 A 500	1.49	M261 A 552	49c
928-31	A, 10-Leaf, 2and4-DoorSed.	Rear	50	M261 A 492	5.69	M261 A 553	$1.39
928-29	AA Truck, 1½-ton, 12 Lvs	Front	30	M261 A 493	2.98	M261 A 554	55c
930-34	AA-BB, V-8, 1½-ton, 14 Lvs	Front	37	M261 A 509	3.10	M261 A 556	69c
935-39	V-8, Truck, 1½-2-ton	Front	59	M261 A 516	5.39	M261 A 559	$1.29
940-41	V-8, Truck, 1½-2 Ton	Front	34	M261 A 498	3.95	M261 A 581	1.19
932-39	V-8, Truck, 1½-2 Ton (Helper Spring)	Rear	35	M261 A 496	2.69	M261 A 579	79c
940-41	V-8, Truck, 1½-2 Ton (Helper Spring)	Rear	36	M261 A 497	3.49	M261 A 580	69c
932-34	B-4 and V-8, Cars; ½-ton Trucks	Front	24	461 A 510	2.25	M261 A 560	79c
935-39	V-8, Cars; ½-Ton Trucks	Front	35	461 A 515	3.49	M261 A 562	89c
1940	V-8, 85 H.P. Pass. Cars without Spring Cover	Front	35	M261 A 494	3.37	M261 A 564	85c
1940	V-8, 85 H.P. Pass. Cars with Spring Cover	Front	38	M261 A 495	3.85	M261 A 564	85c
1940	V-8, 60 H.P. All Pass. Cars	Front	35	461 A 515	3.49	M261 A 562	89c
1932	B-4andV-8Phae.,Cpe.,Cabr.	Rear	39	M261 A 512	4.69	M261 A 561	$1.39
1932	B-4, V-8 Tudor, Vict. Coupe, Conv. Sedan	Rear	42	M261 A 513	4.69	M261 A 561	1.39
1932	B-4 and V-8 Fordor Sedan	Rear	46	M261 A 514	4.95	M261 A 561	1.39
33-34	V-8 Model 40 Coupe, Cabr., Phae., Rdstr	Rear	45	M261 A 504	4.69	M261 A 561	1.39
33-34	V-8 40 2 and 4-door Sedans	Rear	48	M261 A 505	5.29	M261 A 561	1.39
35-40	V-8, 2 and 4-door Sedans	Rear	44	M261 A 502	4.65	M261 A 562	1.10

FOR CHEVROLETS—AS LOW AS $2.49

verage ship. wt. Main Leaves, front 6 lbs., rear 10 lbs.

Year	Fits Only Models Listed	Loc.	Lbs.	Complete Spring		Main Leaf Only	
28-33	AD, AE, BA, CA, 6-cyl	Front	20	M261 A 307	$3.19	M261 A 565	$1.10
28-33	AD, AE, Sed. Coach	Rear	33	M261 A 309	4.69	M261 A 566	1.37
1932	BA, Coach, Spt. Coupe, Phae., Cabriolet	Rear	33	M261 A 309	4.69	M261 A 566	1.37
1933	Standard 6, All Types	Front	16	M261 A 315	2.55	M261 A 567	95c
34-35	DC, EC; Std. 6, All Types	Front	17	M261 A 313	2.55	M261 A 567	95c
1935	FC, Std. 6, All Types	Front	20	M261 A 322	3.15	M261 A 642	98c
37-38	GB, HB, Master, All Types	Front	22	M261 A 367	3.35	M261 A 660	79c
34-36	Master 6, Coach, Town Sdn	Rear	35	M261 A 318	4.95	M261 A 568	$1.69
1937	Mast. 6, GA, GB, 2-4 Dr. Sed	Rear	31	M261 A 301	4.49	M261 A 583	1.69
1938	Mast. 6, HA, HB, 2-4 Dr. Sed	Rear	31	M261 A 302	4.35	M261 A 584	1.35
1939	Mast. 6, JA, JB, 2-4 Dr. Sed	Rear	28	M261 A 304	3.69	M261 A 584	1.35
39-41	Mast. 6, KA, KB, 2-4 Dr. Sed	Rear	28	M261 A 305	3.69	M261 A 585	1.29
34-36	Master 6, 4-dr. Sed	Rear	36	M261 A 320	4.95	M261 A 568	1.69
34-35	DC, EC, Std. 6, All Types	Rear	33	M261 A 309	4.65	M261 A 566	1.37
34-36	Truck, P, Q, R, 1½-ton	Front	32	M261 A 321	3.89	M261 A 569	98c
37-40	Truck, 1½-tonSer. S, T, V, W	Front	32	M261 A 369	4.23	M261 A 670	$1.10
34-36	Truck, ½-ton, DB, EB, FB	Front	26	M261 A 365	3.29	M261 A 658	1.05
37-38	Truck, ½-ton, GC, HC	Front	26	M261 A 368	3.29	M261 A 659	1.05
39-41	Truck, ½-ton JC, KC, AK	Front	20	M261 A 300	2.49	M261 A 582	85c
33-40	Truck, 1½-ton	Rear	69	M261 A 368	6.45	M261 A 661	$1.98
36-40	Truck, 1½-ton (Helper Spring)	Rear	32	M261 A 306	4.25	M261 A 586	1.15

FOR ALL OTHER CARS

Wards can furnish Springs and Main Leaves for all other cars not listed n this page (except those with Knee-action Coil Springs). Exact dupli- ates in size and material of original springs. **Shipped from Factory** a Philadelphia, Pa. usually in 3 additional days. Measure width of spring g main leaf—order from table below. **State Make, Year, Model, Serial o., Body Style and whether for right or left.** If your car has fender eels, specify on your order. For Truck Overload Springs see below. Wards can also furnish Springs and Main Leaves for all Trucks, Buses and Trailers—write us for prices giving complete information. *Mailable.*

Width	Loc.	Lbs.	Complete Springs		Lbs	Main Leaves	
1¾ in.	Front	20	M261 A 288	$3.95	6	M261 A 294	$1.39
1¾ in.	Rear	28	M261 A 291	5.29	10	M261 A 297	2.35
2 in.	Front	25	M261 A 289	4.79	7	M261 A 295	1.89
2 in.	Rear	32	M261 A 292	6.79	12	M261 A 298	2.79
2¼ in.	Front	30	M261 A 290	5.89	8	M261 A 296	2.85
2¼ in.	Rear	40	M261 A 293	7.95	14	M261 A 299	3.95

HOW TO ORDER: Column head "Loc." means location of spring. All springs and main leaves are Mailable. All front springs keyed "461" Shipped from Stock; **others from Philadelphia, Pa. Factory,** usually in 3 days. Prices on springs with metal covers sent on request. Listings below are springs for passenger cars only without covers, unless otherwise stated. Fit only Makes and Models Listed.

FOR PLYMOUTHS—DODGES $2.39 and up

Average ship. wt. Main Leaves, front 6 lbs., rear 10 lbs.

Year	Fits Only Models Listed	Loc.	Lbs	Complete Spring		Main Leaf Only	
1932	**Plymouth** PA, right and left to 1,643,942	Front	19	M261 A 426	$2.39	M261 A 573	95c
1932	PA, right only after 1,643,942	Front	19	M261 A 426	2.39	M261 A 573	95c
1932	PA, left only after 1,643,942 (front eye reversed)	Front	19	M261 A 424	2.39	M261 A 574	95c
1932	PB, All Right (ex. 7 Pass.)	Front	18	M261 A 425	2.69	M261 A 575	85c
1932	PB, All left (ex. 7 Pass.)	Front	18	M261 A 428	2.69	M261 A 639	85c
1933	PC, All to 1,791,708	Front	18	M261 A 541	3.49	M261 A 576	$1.29
1933	PC, All from 1,791,708 to 3,000,610; PD, DeLuxe	Front	18	M261 A 542	3.29	M261 A 635	1.79
1933	PC, Std. all after 1,791,708	Front	18	M261 A 544	2.98	M261 A 635	1.79
1934	PC, Std.	Front	18	M261 A 544	2.98	M261 A 635	1.79
1935	PJ Std. all to 1,061,575	Front	20	M261 A 329	3.29	M261 A 578	1.69
1935	PJ; Std. after 1,061,575	Front	19	M261 A 546	2.69	M261 A 646	1.10
1936	P-1 Standard 6-cyl	Front	19	M261 A 547	2.95	M261 A 650	1.25
1936	P-2 De Luxe (ex. 7 Pass.) to 2,790-616	Front	21	461 A 371	3.29	M261 A 652	1.89
1936	P-2 De Luxe (ex. 7 Pass.) after 2,790,616	Front	21	461 A 370	3.25	M261 A 651	1.85
1937-38	P-4, P-6 (all ex. 7 Pass.)	Front	19	461 A 548	2.98	M261 A 651	1.85
1938	P-5, all with 16 in. wheels	Front	19	M261 A 549	3.29	M261 A 675	1.10
1936-40	2, 4 Door P-2, 4, 6, 8, 10	Rear	40	M261 A 427	5.95	M261 A 653	1.95
	Dodge						
1931	DH, 6 (less shock elim.)	Front	21	M261 A 325	2.59	M261 A 575	85c
1930-32	DD, 6-cyl. All types	Front	20	M261 A 328	2.59	M261 A 570	98c
1933	DP, 6 (Rub. Bush. Disc)	Front	18	M261 A 541	3.49	M261 A 576	$1.29
1935	DU, A.L.L—No Fender Wells	Front	20	M261 A 329	3.29	M261 A 578	1.69
1936	D-2—To Serial 4,073,812	Front	21	461 A 371	3.29	M261 A 652	1.89
1936	D-2—After Serial 4,073,812	Front	21	461 A 370	3.25	M261 A 651	1.85
1937-38	D5, D8, All ex. 7-Pass. and Taxi	Front	19	461 A 548	2.98	M261 A 651	1.85
1938	D-9, all with 16-in wheels	Front	19	M261 A 549	3.29	M261 A 675	1.10
1936	Truck, ½-Ton, LC	Front	21	M261 A 375	2.98	M261 A 664	98c
1937-40	2, 4 Door Sedans D5, D8, D11, D13, D14, D16	Rear	40	M261 A 427	5.95	M261 A 653	$1.95

FOR OTHER POPULAR CARS $1.79 Up

Average ship. wt. Main Leaves, front 6 lbs., rear 10 lbs.

Fits only Makes, Models Listed	Loc	Lbs.	Complete Spring		Main Leaf Only	
Hudson 1935, GH, 6-cyl All	Front	15	M261 A 348	$2.98	M261 A 598	98c
1936, 63, 6-cyl All Types	Front	15	M261 A 435	3.25	M261 A 654	$1.79
1937-39 6-cyl. 73, 83, 93 (without Fender wells)	Front	18	M261 A 432	3.69	M261 A 595	2.10
1939, 6-cyl 112, 90	Front	18	M261 A 433	3.59	M261 A 596	1.98
International Truck						
1934-37, C-1, C-5-½-Ton Truck	Front	21	M261 A 350	2.59	M261 A 591	98c
1937-40, D-2, D-5-½-Ton Truck	Front	22	M261 A 351	2.69	M261 A 592	95c
La Fayette 1936, 3610 Series	Front	28	M261 A 407	4.69	M261 A 666	$1.19
Nash 1936, 400 Series, 3640, 3640A	Front	28	M261 A 407	4.69	M261 A 666	1.19
Olds. 1935-37, 6-cyl. Ser F, All	Rear	36	M261 A 389	4.19	M261 A 610	1.49
1935-37, 8-cyl. Series L Sedans	Rear	40	M261 A 390	4.69	M261 A 610	1.49
1938, 6 cyl. Series F, All Types	Rear	34	M261 A 391	3.95	M261 A 611	1.49
Pontiac 1934, 6 (Rubber Bush)	Front	23	M261 A 540	3.25	M261 A 618	1.59
1932, 6 All (Rubber Bush)	Front	21	M261 A 543	3.25	M261 A 618	1.59
1933, 8 cyl (Rubber Bush.)	Front	19	M261 A 520	3.19	M261 A 619	1.19
1935, Std. 6, All types	Front	20	M261 A 532	3.25	M261 A 620	1.19
1936, Std. 6, All types	Front	19	M261 A 534	3.25	M261 A 647	1.19
1935-36, Std. 6-8, All Types	Rear	35	M261 A 533	4.45	M261 A 621	1.69
1937-38, 6-8 Cyl. Sedans	Rear	36	M261 A 535	4.59	M261 A 608	1.85
1939, 6-8 Cyl. All Types	Rear	32	M261 A 536	5.25	M261 A 609	1.69
1940, 6-8 Cyl. De Luxe, All Types	Rear	32	M261 A 537	5.25	M261 A 609	1.69
1940, 8 Cyl. Torpedo, All	Rear	32	M261 A 538	5.25	M261 A 609	1.69
Studebaker 1939-40, Champ. 6	Front	47	M261 A 453	6.95	M261 A 625	1.59
1939-40, Champion, 6 2-4 Dr. Sedan	Rear	22	M261 A 454	2.98	M261 A 626	1.10
Terraplane 1932, K, All	Front	12	M261 A 345	2.59	M261 A 597	98c
1933, K, 6-cyl. All to 368,378	Front	14	M261 A 344	2.59	M261 A 597	98c
1933, K, after 368,378, KU	Front	15	M261 A 343	2.79	M261 A 671	98c
1935, G, GU, to No 518,051	Front	15	M261 A 348	2.98	M261 A 598	98c
1935, G, GU, after No. 518,051	Front	16	M261 A 352	2.89	M261 A 645	$1.10
1936, 61, 62, 6-cyl., All types	Front	15	M261 A 435	3.25	M261 A 654	1.79
1937-38, 71, 72, 81, 82, ex. Bus. Coupe	Front	15	M261 A 436	3.29	M261 A 668	1.79
Willys 1937-38, 37, 38 All Types	Front	15	M261 A 485	1.79	M261 A 669	69c
1939, 48-4-cyl. All Types	Front	15	M261 A 481	1.79	M261 A 677	79c
1940-41, 440, 441-4-cyl. All Types	Front	15	M261 A 483	1.79	M261 A 679	79c
1937-38, 4-cyl. Sedans	Rear	22	M261 A 480	2.29	M261 A 676	79c
1939, 4-cyl. Sedans	Rear	21	M261 A 482	2.49	M261 A 678	$1.10
1940-41, 440, 441—4-cyl. Sedans	Rear	20	M261 A 484	2.49	M261 A 678	1.10

Wards Overload Springs

- **Massive, Heavy Duty—Save Truck from Damage.**
- **Do not Affect Easy Riding—Work only on Over-loads beyond Capacity of Regular Springs.**
- **SAE Silico Manganese Alloy Steel, Heat Treated—Rebound Clips. Shipped from Factory Stock in Phila., Pa. in 3 days.** *Mailable* except those keyed (*).

Fits only Models, Years Listed	Lbs	Article No	Pair
(A) REAR FOR ½, ¾ AND 1 TON TRUCKS			
Chev. 1934-36, DB, EB, FB ½ Ton	58	M261 A 5699	$9.25
1937-41, GC, HC, JC, KC, AK Mstr. ½ Ton	57	M261 A 5681	9.25
1937-40, GD, GE, HD, HE, JD, JE, KD, KE ¾-1 Ton	65	M261 A 5716	11.25
1941 AL-125¼-in. W.B.—¾ Ton	68	M261 A 5717	11.25
1941, AM—125¼-in. W.B.—¾-Ton, H.D.	68	M261 A 5718	11.25
1941, AN—134½-in. W.B.—¾, 1 Ton	68	M261 A 5733	11.25
Dodge			
1939-41 TC, TD, VC, VD, WC 1½-¾ Ton	75	*261 A 5684	9.45
1939-41 TD20-21, VD20-21, WD20-21-1 Ton	76	*261 A 5685	11.25
Ford V-8, 1938-39, 1 Ton only	84	*261 A 5709	11.20
Ford V-8, 1940-41, ¾ and 1 Ton only	84	*261 A 5715	11.20
G.M.C. 1936, T14 ½ Ton	58	M261 A 5699	9.25
1937-41, T14 ½ Ton	57	M261 A 5681	9.25
International 1933-36 C1, D1, C5½ Ton	55	M261 A 5686	9.25
1937-41, D-15 ¾-1 Ton	65	M261 A 5707	11.25
1937-41, D-2, D5 ½ Ton	55	M261 A 5705	9.25
(C) REAR FOR 1½-2 TON TRUCKS			
Chevrolet 1925-33	96	*261 A 5682	$9.95
1934-36	106	*261 A 5683	8.89
1937-41	100	*261 A 5701	8.85
Ford BB, V-8, 1932-39	97	*261 A 5703	10.89
V-8, 1940-41—1½-2 Ton	100	*261 A 5661	10.89
1928-31 with Tapered Frame also 1931, 131-in. wheelbase	88	*261 A 5692	12.50
1931 with 157-in. wheelbase and straight frame	83	*261 A 5693	12.50
G.M.C. Model T-18	96	*261 A 5682	9.95
(B) REAR FOR PASS. AND LIGHT DELIVERY			
Ford 1933-34, B, V-8	63	M261 A 5695	$9.25
1935-36, V-8 (Small Housing)	59	M261 A 5696	9.25
1936-38 V-8 (Large Housing)	60	M261 A 5712	9.25
1939-40, V-8, Mercury 8, 1939-40	60	M261 A 5714	9.25
†1932-34, B, V-8	31	M261 A 5704	4.98
†1935-40, V-8	33	M261 A 5706	6.20
(D) FRONT FOR PASS. AND TRUCKS			
Ford T-TT, A-AA, B-BB, V-8 cars, trucks to 1934 inclusive	11	M261 A 5713	$2.29

†Lighter Type—Not Rubber Bushed.

Rear for Trailer Towing $8.89 Pair

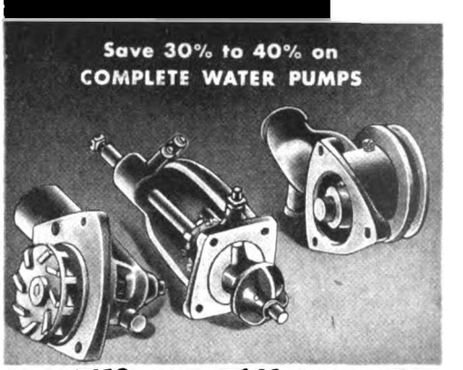
(E) Stop rear end sag—side-sway. Designed for carrying that extra load when towing trailers, or hauling heavy loads. Set includes 2 springs and fittings. Rubber cushioned. Fits Pass. Cars only. *Not Mailable.* For **Buick** 41, 60, 80, 90, 1936-37; **Chevrolet** 1934-41; **Pontiac** 1934-41; **Hudson and Terraplane** 1934-41; **Dodge** 1935-41; **Plymouth** 1935-41; **Nash and Lafayette** 1934-41; **Chrysler** Airflow, Airstream, Royal, 1935-41; **DeSoto** Airstream, Airflow, 1935-41; **Packard 6** 115, 8-120, 1935-41; **Oldsmobile** 1934-38. **Shipped from Factory** in Phila., Pa., in 3 extra days.

261 A 5726 — State Make, Year, Model of Car. Shipping weight pair 70 lbs.

Pair, with fittings.....**$8.89**

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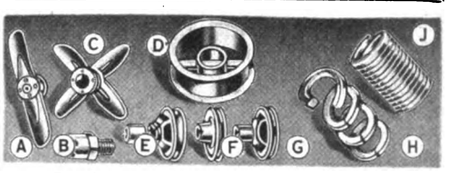
Save 30% to 40% on COMPLETE WATER PUMPS



For Ford A-AA **$1.19** For Ford V-8 **$1.49** For Chev. 6 **$1.39**

Check your water pump now before you put in costly anti-freeze solution for winter. Wards Water Pumps replace original equipment perfectly, yet save you 30% to 40% on usual price.

Fits Only Models Listed Below	Lb.	Oz.	Article No.	Price
Ford, 1928-31, A-AA Grease Fittings	4	2	61 A 3186	$1.19
1932-36, V-8, (Right or Left) Cars	4	12	61 A 3400	1.49
1933-36, 1½ Ton Truck with Single Pulley (Right or Left)	5		61 A 3500	1.89
1937-41, 1½ Ton Truck, 85 & 95 H.P. (Right) with Double Pulley	8		61 A 3501	3.98
1937-41, 1½ Ton Truck, 85 & 95 H.P (Left) with Double Pulley	8	4	61 A 3502	3.98
1937-41, V-8, 85 H P (Right) Pass.	7		61 A 3461	2.49
1937-41, V-8, 85 H P (Left) Pass. Cars	7		61 A 3462	2.49
1938-40, V-8, 60 H P Pass. Trucks	2	8	61 A 3503	2.89
Mercury 8 cyl. (Right) 1939-41	7		61 A 3461	2.49
8 cyl. (Left) 1939-41	7		61 A 3462	2.49
Buick, 1934-39, 8-Cyl. 40 Series	7	10	61 A 3504	4.98
Chrysler, DeSoto, 1936-41, 6-Cyl.; **Plymouth, Dodge** 1933-41, 6-cyl. Pass. Cars	8	10	61 A 3505	4.59
Chevrolet, 1929-34 (Ex. Std. 6)	4	4	61 A 5524	1.39
1933-34, (Standard 6 only)	5	8	61 A 5753	2.49
1935, All Models	4	8	61 A 5754	2.19
1936, All Models	4	14	61 A 5755	2.19
Late 1937-40, (with Belt Pulley)	7	6	61 A 5783	2.69
Oldsmobile, 1937-40, 6-8 cyl	8	6	61 A 3506	4.98
Pontiac, 1933-36, 6-8 cyl	9	2	61 A 3509	4.98
1937-38, 6 cyl.; 1937-40, 8 cyl.	9	2	61 A 3507	4.98
1939-40, 6 cyl	9		61 A 3508	4.98



Fan Assemblies for Fords

(A) 61 A 3194—1928-34, A-AA, B-BB (2 Blades). Wt. 3 lbs. 4 oz. 49c

(C) 61 A 3304—1933-36, V-8, (4 Blades). Ship. wt. 3 lbs. 65c

Crankshaft Pulleys for Fords

(G) 61 A 3195—1928-34, A-AA, B-BB (1 Piece). Ship. wt. 2 lbs. 6 oz. 39c

(E) 61 A 3274—1928-34, A-AA, B-BB (2 Piece). Wt. 2 lbs. 4 oz. ... 42c

(F) 61 A 3303—1932-38, V-8. Ship. wt. 1 lb. 14 oz. 55c

(D) 61 A 2127—Flanged Fan Belt Pulley for Ford T-TT 1917-27. With locking pin. Ship. wt. 1 lb. 59c

Crankshaft Ratchet for Fords

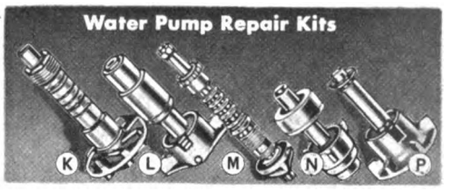
(B) 61 A 3300—Fits 1928-38, A-B-V-8. Ship. wt. 8 oz. 15c

Water Pump Packing

Stops leaks in water pump. Seals firmly—cannot injure shaft. Ship. wt. 4 oz.

(M) 61 A 9203—Set of 4 Rings. Fit Ford 1928-32, Chev. 1916-36, Chrysler, Dodge, Olds, Plymouth, Pontiac, using this type packing. Set..... 12c

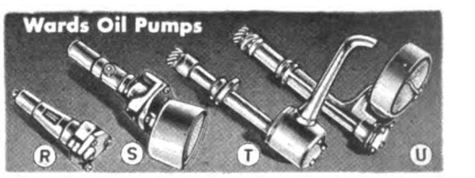
(J) 61 A 9204—2½ ft. lgth. Ea..... 13c



New Water Pump Parts Kits

Sets include shaft, impeller, packing and nut where used—and bushings for one pump. Av. ship. wt. 2 lbs.

Fits Only Models Listed	Article No.	Each
Chevrolet 6, 1935	(K) 61 A 3028	65c
6, All (exc. Std.) 1929-34	(K) 61 A 5614	59c
6, 1936	(K) 61 A 3029	65c
6, 1937 Bushing Type	(K) 61 A 5760	$1.29
6, 1938-40 Ball Bearing Type	(K) 61 A 5757	2.29
Chrysler 6, 1934	(L) 61 A 3536	1.19
6, 8, 1935-41	(L) 61 A 3536	1.19
De Soto, Dodge 6, 1933-41	(L) 61 A 3536	1.19
Ford A-AA, 1928-31	(M) 61 A 3298	59c
BB—V-8, 1932-36 1½ Ton Truck, Single Pulley Type	(N) 61 A 3031	95c
V-8, 1937-41 1½ Ton, 85 & 95 H.P. (Dble. Pulley Type)	(N) 61 A 3032	$2.29
V-8, 1932-36 Pass. Cars	(P) 61 A 3299	45c
V-8, 85 H.P., 1937-41 Cars	(R) 61 A 3030	89c
V-8, 60 H.P. 1938-40 Cars	(R) 61 A 3033	$1.98
Plymouth 6, 1933-41	(L) 61 A 3536	1.19



New Oil Pumps for Chevrolet

Avoid the danger of burning out connecting rod and main bearings by replacing defective oil pumps. Tested by factory experts. Complete with screen except 1927-28 models. Av. ship. wt. 5 lbs.

(R) 61 A 5515—For 1927-28 ..... $1.29

(S) 61 A 5534—For 1929-34 ..... 1.49

(S) 61 A 5535—For 1935 ..... 1.49

(S) 61 A 5880—For 1936 ..... 1.49

(S) 61 A 5881—For 1937-39 ..... 3.49

Rebuilt Oil Pumps for Ford V-8

Completely reconditioned—$1.00 allowance for old pump. 2 Plans (1) Send Exchange Price Plus postage, Return old pump postpaid to Wards Mail Order House. OR (2) Send Full Price plus postage. We Send new Pump plus Refund Coupon.

Year	Article No.	Outright	Exch.
(T) 1932-34	61 A 5882	$2.49	$1.49
(T) 1935-36	61 A 5883	2.49	1.49
(U) 1937-40	61 A 5884	2.49	1.49

Add the Repair Parts You Need to Your Credit Order

WARDS BRAKE LINING SETS

Wards Label Saves You $2 to $3 a Set



WARDS SUPREME QUALITY LINING

- *Long Wearing*
- *Smooth Acting*
- *Fast Stopping*

LONG LIFE: 74 separate tests w 7 other leading brake linings prov Wards Supreme Quality equals or e ceeds the best you can buy regardle of price. Yet you save $2 to $3 a s

EASY PEDAL: Maximum braki power with the least pedal pressu A feeling of security the instant y touch the pedal. Your brakes g smoothly with the least pressu Ideal for women drivers.

SAFETY: Smooth sure action rega less of weather. No grabbing or sl ping when wet. No glazing a squeaking from the heat. No slippi or "fading" caused by excess fricti common in mountain driving.

ENGINEERED TO YOUR CA The correct design or type is furnish to give maximum efficiency for yo car. All linings formed and shap to curve of shoe. Ground true on BO sides for faster "break in." Drilled a countersunk for rivets, beveled on end

Wire-Back Molded Sets—Drilled and Fitted

A good quality, dependable Brake Lining. Not as hard or as long wearing as Wards Supreme Brake Lining, but because it *is* softer, will give you an even *more velvety braking action* and a *"softer" brake pedal* than Wards Supreme. It will also "break in" to worn drum surfaces faster. Same type lining as original equipment on several popular cars. Strong wire mesh back gives added strength at the base of the lining for holding rivets. Sets consist of cut and shaped strips, the exact size for your brake shoes. Holes are drilled and countersunk, ends are beveled—ground on braking side only. With rivets and instructions. Av. ship. wt. set, 3 lbs. 2 oz.

Complete Sets for 4 Wheels—(Not for Emergency Brakes)

Make and Year	Fit Only Models Listed	Article No.	Set
Buick 1934-40	Passenger Cars, Model 40	61 A 7838	$1.85
Chevrolet 1930-32	Passenger & ½-Ton Truck	61 A 7828	1.19
1933	Master Pass. only & ½-Ton Truck	61 A 7829	1.35
1934-35	Master Pass. only & ½-Ton Truck	61 A 7830	1.69
1936-41	Master, Std. Pass. & ½-Ton Truck	61 A 7831	1.69
Chrysler 1930-31	66 and 1931 6-cylinder	61 A 7832	1.39
1933	6-cylinder—CO	61 A 7832	1.39
1935 and 1937	6-cylinder—C6, C16	61 A 7833	1.69
De Soto 1928-33	6 & 8-Cyl inder	61 A 7832	1.39
1935 and 1937	1935 Model SF—1937 Model S3	61 A 7833	1.69
Dodge 1930-31	6-cyl. Pass. DD, DH; Truck F, UF, 10, 16	61 A 7832	1.39
1933	6-cylinder, DP, ½-Ton Truck, HC, HCL	61 A 7834	1.29
1935-37	6-cyl. Passenger & KC, KCL, LC Trucks	61 A 7833	1.69
Ford 1928-31	A, Passenger Cars & ½-Ton Truck	61 A 7835	1.35
1932-34	B & V8, Passenger & ½-Ton Truck	61 A 7836	1.69
1935-36	V8, Pass., ½-Ton Truck 50 & 67 Commercial	61 A 7837	1.69
1937-38	V8, 85-60 Passenger & ½-Ton Truck	61 A 7837	1.69
1939-41	V8 Pass. & ½-Ton Truck	61 A 7840	1.69
Lincoln-Zephyr 1936-40	All 12-Cylinder	61 A 7838	1.85
Mercury 1939-41	All 8-Cylinder	61 A 7840	1.69
Oldsmobile 1932-33	6 and 8 Cylinder	61 A 7838	1.85
1934	8 Cylinder	61 A 7838	1.85
1937-39	8 Cylinder	61 A 7838	1.85
Plymouth 1929-32	All 4-cylinder models	61 A 7832	1.39
1933-34	6-cylinder, PC, PD, PF, PG	61 A 7834	1.29
1935-41	All 6-cylinder models	61 A 7833	1.69
Pontiac 1933	8-cylinder	61 A 7829	1.35
1932	6-cylinder	61 A 7838	1.85
1934-38	6 and 8-cylinder	61 A 7838	1.85

For Other Cars Order by the Foot Below

Wards SUPREME Drilled and Fitted Sets

Our longest wearing Brake Lining—read the complete story above at right. Do the job the best way; use the finest lining—your labor is the same. Easy to put on—the exacting work of drilling countersinking is already done. With rivets and instructions. Av. wt. 3 lbs. 6 oz.

Complete Sets for All 4 Wheels (Not for Emergency Brakes)

Make and Year	Fit Only Models Listed	Article No.	Set
Chevrolet 1930-32	Passenger & ½-Ton Truck	61 A 7939	$1.39
1933	Master Pass. only & ½-Ton Truck	61 A 7936	1.79
1934-35	Master Pass. only & ½-Ton Truck	61 A 7937	1.98
1936-41	Master, Std. Pass. & ½-Ton Truck	61 A 7932	1.98
Chrysler 1930-31	66 and 1931 6-cylinder	61 A 7940	1.49
1933	6-cylinder—CO	61 A 7940	1.49
1935 and 1937	6-cylinder—C6, C16	61 A 7941	1.79
De Soto 1928-33	6 & 8-Cylinder	61 A 7940	1.49
1935 and 1937	1935 Model SF—1937 Model S3	61 A 7941	1.79
Dodge 1930-31	6-cyl. Pass. DD, DH, Truck F, UF, 10, 16	61 A 7940	1.49
1933	6-cylinder, DP, ½-Ton Truck, HC, HCL	61 A 7942	1.45
1934	6-cylinder DR, DS	61 A 7943	1.55
1935-37	6-cyl. Pass enger & KC, KCL, LC Trucks	61 A 7941	1.79
Ford 1928-31	A, Passenger Cars & ½-Ton Truck	61 A 7944	1.95
1932-34	B & V8, Pass enger & ½-Ton Truck	61 A 7945	1.95
1935-36	V8, Pass., ½-Ton Truck 50 & 67 Commercial	61 A 7946	2.19
1937-38	V8, 85-60 Pas senger & ½-Ton Truck	61 A 7949	2.19
1939-41	V8 Passenger and ½-Ton Trucks	61 A 7950	1.98
1928-30	All AA, 1½-Ton Truck Before Jan. 1, 1930	61 A 7948	3.29
1930-34	AA, BB, 1½-Ton Truck After Jan. 1, 1930	61 A 7947	4.59
Mercury 1939-41	All 8-cylinder models	61 A 7950	1.98
Plymouth 1929-32	All 4-cylinder models	61 A 7940	1.49
1933-34	6-cylinder, PC, PD, PF, PG	61 A 7942	1.45
1934	6-cylinder, PE	61 A 7943	1.55
1935-41	All 6-cylinder models	61 A 7941	1.79
Pontiac 1933	8-cylinder	61 A 7936	1.79

SUPREME Undrilled Brake Lining Sets (Not Pictured)

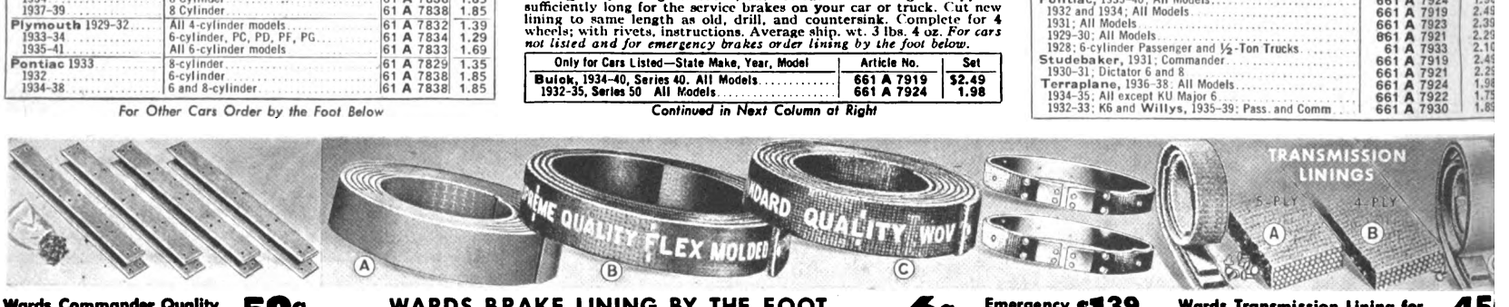
Same Quality Linings as above, but not cut to exact length. Supplied sufficiently long for the service brakes on your car or truck. Cut new lining to same length as old, drill, and countersink. Complete for 4 wheels; with rivets, instructions. Average ship. wt. 3 lbs. 4 oz. *For cars not listed and for emergency brakes order lining by the foot below.*

Only for Cars Listed—State Make, Year, Model	Article No.	Set
Buick, 1934-40, Series 40, All Models	661 A 7919	$2.49
1932-35, Series 50 All Models	661 A 7924	1.98

Continued in Next Column at Right

Supreme Undrilled Sets—Cont'd from Column at Left

Only for Cars Listed—State Make, Year and Model	Article No.	Se
Buick (Cont'd) 1930, Series 50 and 60	661 A 7929	$1.9
1931-33 Series 880, 890, 80, 90	661 A 7929	1.9
1931-33; 1931, 860; 1932-33, 50-60 Series	661 A 7924	1.9
1930-31; 850 and Marquette	661 A 7919	2.4
1926-29; Standard 6	661 A 7800	2.6
1926-29, Master 6	661 A 7801	3.3
Chevrolet, 1928; Passenger and ½-Ton Truck	61 A 7933	2.1
1929; Passenger and ½-Ton Truck	61 A 7934	2.1
Chrysler, 1932-33; 1932 Eight, 1933 CO	661 A 7929	1.9
1931-33; 1931 Eight Except Imperial, 1932 Six, 1933 CT	661 A 7924	1.9
1928-31; 65, 70, 75, 77, Fargo 6	661 A 7923	2.3
De Soto, 1934-36; SE, SG; S1, S2	661 A 7929	1.9
Dodge, 1932-33; DK8, DO8	661 A 7929	1.9
1930-32; DG6, DC8, DL6	661 A 7924	1.9
1928-30; DA1-6 cylinder, Senior 6 and Victory	661 A 7923	2.3
1928, Standard 6	661 A 7927	2.3
1930; Model 53	661 A 7921	2.2
Essex, 1932; Super 6	661 A 7930	1.8
1929-31; All Models	661 A 7916	1.4
Ford, 1935-38; All 1½-Ton Trucks	661 A 7824	4.8
Hudson, 1934-35 (except 8 Std. & 6 cyl., GH, H1, HU)	661 A 7922	1.7
1936-40, All except 112-Six	661 A 7924	1.9
1932-33, Eight	661 A 7919	2.4
1930-31, All Models	661 A 7921	2.2
1929, Conqueror	661 A 7929	1.9
Hupmobile, 1933-34, 316, 321, 321A, 322, 326, 421J	661 A 7927	2.3
1932, 214, 216, 218, 222, 226; 1928-29, 1931, Century 6, 8	661 A 7927	2.3
1930; S-6	661 A 7921	2.2
Lincoln-Zephyr, 1936-40; All Models	661 A 7919	2.4
Nash, 1930-33; all ex. 990, 980, 1090, 890, 490, 1190	661 A 7923	2.3
Oldsmobile, 1935-36; Six, Eight	661 A 7927	2.3
1934, Six	661 A 7930	1.8
1932-34; (1932, 1933 Six and Eight; 1934 Eight)	661 A 7919	2.4
1930-31; F-30, F-31	661 A 7921	2.2
1927-29; 30E, F28, F29	661 A 7926	2.3
Overland, 1931, M96A Whippet 4	661 A 7916	1.4
Pontiac, 1935-40; All Models	661 A 7924	1.9
1932 and 1934; All Models	661 A 7919	2.4
1931; All Models	661 A 7923	2.3
1929-30; All Models	661 A 7921	2.2
1928; 6-cylinder Passenger and ½-Ton Trucks	61 A 7933	2.1
Studebaker, 1931; Commander	661 A 7919	2.4
1930-31; Dictator 6 and 8	661 A 7921	2.2
Terraplane, 1936-38; All Models	661 A 7924	1.9
1934-35; All except KU Major 6	661 A 7922	1.7
1932-33; K6 and Willys, 1935-39; Pass. and Comm	661 A 7930	1.8



Wards Commander Quality Drilled Brake Sets — 59c And Up

Furnished in flat strips that require shaping and fitting to shoes—Cut to exact length—holes drilled and countersunk—ends beveled to prevent chatter and grabbing. Not ground. Rivets and instructions. Average ship. wt. set, 2 lbs. 14 oz.

Sets Are for 4 Wheels	Article No.	Set
Chevrolet 1930-32, Pass. & ½-Ton Truck	61 A 7972	59c
Chrysler 1930-31, Series 66	61 A 7973	69c
1931, 6 cylinder	61 A 7973	69c
1933, 6 cylinder—CO	61 A 7973	69c
Dodge 1930-31, 6 cylinder Pass. DD, DH; Truck F, UF, 10, 16	61 A 7973	69c
Ford 1928-31, A, Pass. & ½-Ton Truck	61 A 7974	79c
1932-34, B & V8, Pass. & ½-Ton Truck	61 A 7975	89c
Plymouth 1929-32, All 4-cyl	61 A 7973	69c

Brake Lining Sets for Older Cars

Woven Asbestos for rear. Molded for front. Strips cut to the exact length. Instructions and rivets included. Ship. wt. set, 1 lb. 8 oz. Prices are for sets for 2 wheels. *Only Sets marked (*) are drilled for rivets.*

61 A 8053—For Chev. 1926-28 Pass. Rear.. 79c
*61 A 8055—For Chev. 1929 Pass. Truck Rear 79c
*61 A 7971—For Chev. 1928-29 Pass. Front. 35c
*61 A 7971—For Pontiac 1928 Pass. Front 35c
61 A 8053—For Pontiac 1926-28 Pass. Rear 79c

WARDS BRAKE LINING BY THE FOOT — 6c Ft. And Up

Order here if your car, truck or tractor is not listed above. Illustrated instructions make installation and adjusting easy. Order Tools and Rivets from opposite page.

Ⓐ **Wards NEW Wire Back Lining**—A high friction molded lining for internal hydraulic brakes and other uses described for Flexible Molded Lining.

Ⓑ **Wards Flexible Molded Lining**—Longest wearing. Especially made for internal hydraulic brakes on older model cars not listed above and all mechanical brakes except Steeldraulic and Bendix systems. Same quality as used by Truck Manufacturers on late model trucks because it stands hard use. Recommended for tractors, and other industrial equipment.

Ⓒ **Wards Woven Lining**—Gives long service. For all external brakes as well as for emergency (Hand) brakes. Same type as used on many tractors and industrial machines.

Width Inches	Thickness	Ship. Wt. per Ft.	Ⓐ Wire Back	Per Foot	Ⓑ Flexible Molded	Per Foot	Ⓒ Wards Woven	Per Foot
1	1/8	2 oz.					661 A 7726	6c
1¼	1/8	2½ oz.			661 A 7701	12c	661 A 7727	8c
1¼	5/32	3¼ oz.			661 A 7702	13c	661 A 7728	9c
1½	5/32	3½ oz.	661 A 7720	13c	661 A 7703	17c	661 A 7729	10c
1¾	5/32	3¾ oz.			661 A 7704	20c	661 A 7730	11c
2	5/32	4¼ oz.			661 A 7705	22c	661 A 7731	12c
1¼	3/16	4 oz.			661 A 7708	17c		
1½	3/16	4½ oz.	661 A 7721	15c	661 A 7709	19c	661 A 7732	11c
1¾	3/16	4½ oz.	661 A 7722	18c	661 A 7710	21c	661 A 7733	12c
2	3/16	5 oz.	661 A 7723	18c	661 A 7711	22c	661 A 7734	13c
2½	3/16	6½ oz.			661 A 7712	27c	661 A 7735	15c
2½	3/16	6½ oz.			661 A 7713	33c	661 A 7736	17c
1¾	¼	6 oz.			661 A 7714	33c	661 A 7737	17c
2	¼	6¼ oz.	661 A 7724	27c	661 A 7715	33c	661 A 7738	18c
2½	¼	6½ oz.			661 A 7718	39c	661 A 7739	20c
2½	¼	6 oz.			661 A 7717	45c		
3	¼	11 oz.			*M261 A 7719	59c	*M261 A 7741	39c

***3-inch size** shipped from Factory near Chicago, Ill. or Newark, N.J. in 3 days.

Emergency Brake Shoes — $1.39 and up SET OF 2

- **Ready-Lined Emergency Shoes.**
- **Correct Thickness.**

Wards Standard Quality Long woven fiber linings are treated to resist water, oil and heat. Complete with installation instructions. Shipping weight set, 9 lbs. 12 oz.

61 A 5804—For Chevrolet 1925-27 Passenger; Pontiac 1926-27 Passenger.....$1.69

61 A 5803—For Chev. 1928-29 Pass.; Pontiac 1928 Passenger..$1.69

61 A 5813—For Ford A, 1928-31 Pass. and ½ Ton Trucks.....$1.39

61 A 5805—For Ford 1928-34 AA and BB Trucks.....$3.49

BUY ON TIME
See Inside Back Cover

Wards Transmission Lining for Ford T Pass. and TT Trucks — 45

4-PLY—Heavier Than Original

Ⓑ Heavy 4-Ply Cotton—better than origin Full size. Treated with special lubricant to sist moisture and glazing caused by high temper tures. Rivets included.

61 A 2442—1909-25. **Set of 3 pieces.** Shippi weight 11 ounces.....

61 A 2443—1926-27. **Set of 3 pieces.** Shippi weight 13 ounces.....

5-PLY—Extra Heavy Duty — 65

Ⓐ Eliminates noise, jerk, etc. Long fiber woven cotton. Gives longest life—smoothest action on old worn drums. Treate with lubricants to resist grit, moisture, heat, wea With Rivets. Ship. wt. 1 lb.

61 A 2219—1909-25—**Set of 3 pieces**.....

61 A 2233—1926-27—**Set of 3 pieces**.....

Famous Scandinavia — $1.

Ⓒ Get new power, pep, long life with Scandinavia Transmission Lining for Ford T-TT. Treated to resist heat, oil, grit, moi ture, wear. Long fiber woven Cotton twill. Give uniform friction. With rivets.

61 A 2334—1909-25. **Set of 3 pieces.** Shippin weight 13 ounces.....

61 A 2335—1926-27. **Set of 3 pieces.** Shippin weight 1 pound.....

See Index for Other Parts for T-TT Fords



Save Up to ½ on Lined Brake Bands — $1.69 Pair and up

(D) Supreme Quality Flexible Molded Lining—Equal to the best yet priced to save you ½.

(E) Standard Quality Woven Lining—Equals original equipment. Instructions. Ship. wt. pair, 7 lbs.

(D) Supreme Quality Lined Bands for Rear Wheels

61 A 5928—Chev. 1926-28 V, AA, AB; Pontiac, 1926-28.....$2.39

61 A 5930—Chev. 1929, Pass. and ½-Ton Truck.... 2.49

(E) Standard Quality Lined Bands for Rear Wheels

61 A 5790—Chev. 1929, Pass.; ½-Ton Truck.....$1.75

61 A 5791—Chev., 1926-28 V, AA, AB; Pontiac 1926-28..$1.69

964 WARDS 52 CB AB

Brake Drums for Ford and Chev. — $1.98 Pair And Up

Ⓕ Stop squeaking, save wear on lining, improve braking. Hardened pressed steel except Chev. 1936-39 which are cast iron like original. Same specifications as original.

Fit Only Passenger Cars Listed Below	Loc	Wheel	Brake Drums Article No.	Sh. Wt	Pair	Hub Bolts Set	Article No.	Set
Chev. 1927-29	R	Disc	461 A 2778	16 lbs.	$1.98	12	61 A 2793	29c
1930-32	F-R	All	461 A 2777	20 lbs.	2.39	12	61 A 2796	37c
1936-41 Knee Act. Only	F	All	461 A 2800	22 lbs.	4.49	12	61 A 2802	55c
1936-41 All Pass.	R	All	461 A 2801	22 lbs.	4.49	12	61 A 2803	55c
Ford A 1928-31	R	Steel	461 A 2782	17 lbs.	1.98	10	61 A 2797	25c
A, 1928-31	F	Steel	461 A 2783	17 lbs.	1.98	10	61 A 2798	25c
V-8, 1932-1938-39	F-R	Steel	461 A 2779	25 lbs.	4.69	10	61 A 2799	35c

Hub Bolts

Ⓖ For Ford and Chev. Sold in Sets. Shipping weight set, 1 pound 8 ounces.

Hub—Drum Assemblies — $1.45 Each Exchange

Ⓗ All New Drums and Bolts—Assures you perfect fit and standard thickness of drum. Front hubs have Timken type cups. Exchange plan same as for Brake Shoes on opposite page. Wt. 15 lbs.

For Ford A 1928-31

461 A 2786—Rear.
461 A 2785—Front.
Exchange Price Each..$1.45
Full Price, Each..... 2.45

Brake Rods and Springs for Fords

Replace worn brake rods and springs to insure full braking efficiency. All parts listed below fit Passenger Cars and ½ Ton Trucks.

Description	Year & Model	Wt.	Art. No.	Ea.
(L) Foot Brake Rod, Front or Rear	1928-31 A	1 lb.	461A3333	19c
(M) Brake Rod, Rear	1935-36 V-8	2 lbs.	461A3418	23c
(N) Brake Rod Spring (Heavy Duty Type)	1928-31 A	4 oz.	61A2583	21c
(J) Hub Bolt Nut	1928-31 A	3 oz.	61A3136	6c
(K) Hub Bolt Nut	1932-40 B-V8	2 oz.	61A3288	3c

Buy on Time—See Inside Back Cover

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READY LINED BRAKE SHOES

Liberal Allowance for Old Brake Shoes



BRAKE RELINING MADE EASY

Only 4 Simple Steps



New Brakes with the Least Work—No Drilling or Riveting Necessary—Lining Is Already on Shoes, Cuts Labor Time in Half. Allowance for Your Old Brake Shoes.

Wards SUPREME Ready-Lined Brake Shoes

change your old brake shoes for these long wearing Ready-Lined Shoes—itted with Wards Supreme Lining. 60c to $4.50 allowance for old shoes. In-ructions. See "How to Order Brake Shoes." *Fit Front or Rear Unless Marked.*

Sets Consist of 4 Shoes for 2 Wheels—For 4 Wheels Order 2 Sets

Only for Following Car Makes, Years and Models	Wt. Lbs.	Article Number	Exch. Price	Full Price
Chev. 1930–32 Pass. and ½-Ton Trucks	6	61A5942	$1.25	$1.95
1933 Mast. and ½-Ton Pickup Trucks	7	61A5943	1.45	2.15
1934–35 Master Pass.—½-Ton Truck	9	61A5937	1.49	2.79
1936–41 Pass. and ½-Ton Trucks	7	61A5977	1.49	2.39
1930–32 1½-Ton Trucks (Front Only)	6	61A5942	1.25	1.95
1933 1½-Ton Trucks (Front Only)	7	61A5943	1.45	2.15
1934 1½-Ton Trucks (Front Only)	9	61A5937	1.49	2.79
1930–34 1½-Ton Trucks (Rear Only)	16	561A5978	3.49	5.29
1936 1½-Ton Late and All 1937–41 (Front Only)	11	61A5979	3.49	5.29
1936 1½-Ton Late and All 1937–41 (Rear Only)	16	61A5980	4.29	6.09
Chrysler, 1930–31, 6	7	61A5944	1.29	1.69
1935, Model C6; C16, 1937	8	61A5936	1.45	2.35
1938–41, 6-cyl., C18, C22, C25, C28	10	61A5981	2.28	2.98
De Soto, 1935 Model SF; 1937 Model S3,	8	61A5936	1.45	2.35
1938–41, S5, S6, S7, S8	10	61A5981	2.28	2.98
Dodge 6, 1930–31, DD and DH	7	61A5944	1.29	1.69
1933, 6, Pass. ½-Ton Light Delivery Truck	6	61A5945	1.19	1.89
1934, 6, ¾-Ton Pickup Truck; 1935 and 1937, 6-cyl.	8	61A5936	1.45	2.35
1936, 6-cyl. Pass. Cars and ½-Ton Trucks	7	61A5976	1.49	2.49
1938–41 Pass. Cars and ½-Ton Trucks	10	61A5981	2.28	2.98
Ford, 1928–31 A Pass. and ½-Ton Trucks	6	61A5940	1.39	1.99
1928–29 AA Truck (Front Only)	6	61A5940	1.39	1.99
1928–34 AA-BB Truck (Rear Only)	15	561A5939	3.29	4.69
1930–34 AA-BB-V-8 1½-Ton Truck (Front Only)	15	561A5939	3.29	4.69
1932–34 B and V-8 Pass.—½-Ton Truck	7	61A5941	1.45	2.15
1935–36 V-8, Pass. and ½-Ton Truck	8	61A5938	1.79	3.19
1937–38 Pass. & ½ ton truck; also Front only for 1938, 81Y and 82Y Truck	10	61A5832	1.59	2.99
1935–37 1½-Ton Trucks	19	561A5833	3.25	6.50
1938 1½-Ton Front or Rear; 1-Ton 81Y, 82Y, Rear only	19	561A5983	4.95	8.20
1939–41 Pass., ½-Ton, Mercury, 1939–41	8	61A5982	1.95	3.25
1939–41 1 ton truck (Rear); 1½ ton truck (Front)	16	561A5974	3.70	6.95
1939–41 1½ ton truck (Rear)	16	561A5975	6.35	10.85
Plymouth, 1929–32, after Ser. No. RR-593-Y	7	61A5944	1.29	1.69
1933–34 All except 1934 PE	6	61A5945	1.19	1.89
1934, 6, PE; All 1935; All 1937–41	8	61A5936	1.45	2.35
1936, 6-cyl. Pass. Cars and ½-Ton Trucks	7	61A5976	1.49	2.49
Pontiac, 1933, 8-cylinder	7	61A5943	1.45	2.15

Wards COMMANDER Ready-Lined Brake Shoes

Lined with the same care and workmanship as Wards Supreme Quality Brake Shoes. Will provide good braking service, and wear equal to other medium priced lined shoes but not equal to Wards Supreme. Ground only on braking surface that contacts the drum. Buy Wards Commander if you expect to drive your car a limited length of time, but if you want longest, trouble-free service even under most severe conditions get Supreme Quality. Remember, the time and cost of changing shoes is the same regardless of the lining used. 60c to $1.40 allowance for old shoes (see How to Order below). Instructions included. Shoes listed fit either front or rear wheels unless otherwise stated.

Sets Consist of 4 Shoes for 2 Wheels—For 4 Wheels Order 2 Sets

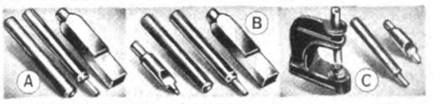
Only for Following Car Makes, Years and Models	Wts. Lbs.	Article Number	Exch. Price	Full Price
Chev. 1930–32 Pass. and ½-Ton Trucks	6	61A5902	69c	$1.39
1933 Mast. and ½-Ton. Pickup Trucks	7	61A5903	79c	1.49
1934–35 Master Pass.—½-Ton Truck	9	61A5905	95c	2.25
1936–41 Pass. and ½-Ton Trucks	7	61A5904	$1.10	2.00
1930–32 1½-Ton Trucks (Front Only)	6	61A5902	69c	1.39
1933 1½-Ton Trucks (Front Only)	7	61A5903	79c	1.49
1934 1½-Ton Trucks (Front Only)	9	61A5905	95c	2.25
Chrysler, 1930–31, 6	7	61A5907	85c	1.25
1935, Model C6; C16, 1937	8	61A5910	98c	1.88
De Soto 6, 1928–32 after KY-715W; 8-cyl. 1929–31	7	61A5907	85c	1.25
1935 Model SF; 1937 Model S3	8	61A5910	98c	1.88
Dodge 6, 1930–31, DD and DH	7	61A5907	85c	1.25
1933, 6, Pass. ½-Ton Light Delivery Truck	6	61A5909	79c	1.49
1934, 6, ¾-Ton Pickup Truck; 1935 and 1937 6-cyl.	8	61A5910	98c	1.88
Ford, 1928–31 A Pass. and ½-Ton Trucks	6	61A5911	85c	1.45
1928–29 AA Truck (Front Only)	6	61A5911	85c	1.45
1932–34 B and V-8 Pass.—½-Ton Truck	7	61A5915	89c	1.59
1935–36 V-8, Pass. and ½-Ton Truck	8	61A5916	95c	2.35
1937–38 V-8 and ½-Ton Trucks, 81Y, 82Y, 1938 Truck (Front)	10	61A5917	98c	2.38
Plymouth, 1929–32, after Ser. No. RR-593-Y	7	61A5907	85c	1.25
1933–34 All except 1934 PE	6	61A5909	79c	1.49
1934, 6, PE; All 1935; All 1937–41	8	61A5910	98c	1.88
Pontiac, 1933, 8-Cylinder	7	61A5903	79c	1.49

HOW TO ORDER BRAKE SHOES—Allowance for Old Shoes

Send your old shoes with order or return them later. Use either of these plans:

(1) Send old brake shoes. *Post paid*, with the exchange price.

(2) Send full purchase price and return your brake shoes *Post-paid* later for refund. See "How to Return Goods" in back of book.



RELINE YOUR OWN BRAKES—Save that $6 to $8 extra labor charge! These handy tools make it easy. (For Wheel Puller, see Page 968. For Brake Fluid, see below.)

(A) **61 A 5986—3-Piece Set.** For drilled brake lining sets. Knock-out punch, rivet clincher tool, anvil. Wt. 7 oz. 29c

(B) **61 A 9415—4-Piece Set.** For all brake lining sets. Rivet knock-out punch, combination drill and counterbore, clincher tool, anvil. Ship. wt. 10 oz. 39c

(C) **61 A 5985—5-Piece DeLuxe Set.** Tool holder fixture holds anvil and rivet knock-out punch or rivet clincher tool—leaves hands free to hold shoe or brake band and hammer. Nothing else required but hammer and vise. Set includes rivet knock-out punch, combination drill and counterbore, clincher tool, anvil and tool holder fixture. For all brake linings. Ship. wt. 1 lb. 4 oz. 59c

84 A 6904X—1-inch Clamp—Holds lining in place for drilling, riveting (2 needed). Ship. wt. 3 oz. Each 9c

BRAKE LINING RIVETS—Ship. wt. per box, 8 oz.

Semi-Tubular Rivets

Diam. In.	Lgth. In.	3/16-in. Head	Box 100
3/64	4/16	61 A 9400	21c
3/64	5/16	61 A 9401	23c
3/64	6/16	61 A 9402	25c
3/64	7/16	61 A 9403	27c
3/64	8/16	61 A 9412	29c
3/16	5/16	61 A 9405	29c
3/16	6/16	61 A 9406	32c
3/16	7/16	61 A 9407	35c

Diam. In.	Lgth. In.	5/16-in. Head	Box 100
For Bendix Brakes			
3/64	4/16	61 A 9408	19c
3/64	5/16	61 A 9409	21c
3/64	7/16	61 A 9411	25c
Split Rivets—5/16-in. Head			
3/64	5/16	61 A 9416	19c
3/64	6/16	61 A 9417	21c
3/64	8/16	61 A 9418	25c
3/64	9/16	61 A 9419	29c



Hydraulic Brake Fluid — 45c Pint

(H) Car manufacturers advise that Hydraulic Brakes be checked regularly to see that there is sufficient fluid in the master cylinder reservoir. Safety demands that it be filled to normal levels by the occasional addition of an approved fluid. The brake system should also be drained and refilled from time to time to remove condensation and dirt.

You can buy no finer fluid than Wards Supreme. An all-weather product, it flows freely at 40° below zero. It retains good body even when brake drums heat up to 250°. It will not corrode or rust the brake system. It resists evaporation—mixes with original fluids in Ford, Chrysler, General Motors, Lockheed and Bendix Systems. With instructions.

61 A 9595—1 Pint. Wt. 1 lb. 8 oz. 45c
61 A 9596—1 Quart. Wt. 2 lbs. 8 oz. 79c
561 A 9597—½ Gallon. Wt. 5 lbs. $1.39

Genuine Lockhead No. 21 Fluid

(J) An all weather Fluid for all types of hydraulic brake systems. Properly mixes with all other approved brake fluids including those used in Ford, Chrysler, General Motors, Lockheed, and Bendix Systems. Same as used by many car makers for new cars. Complete with instructions.

61 A 9578—1 Pint. *Postpaid* 63c
61 A 9579—1 Quart. *Postpaid* $1.12

(D) 2-Wheel Cylinder Kits — 42c 2 wheel

Everything for reconditioning *two* wheel cylinders—cups, springs, boots, instructions. Ship. wt. 1 lb.

Not for Trucks, unless stated	FRONT WHEEL		REAR WHEEL	
Chev. Pass. and ½ Ton 1936–41 (Except Std. 1936)	61A6090	45c	61A6089	45c
¾ Ton Truck 1938–40	61A6090	45c	61A6089	45c
Chrysler 1934–40	61A6087	42c		
Dodge 6, 1933–34	61A6085	42c	61A6086	42c
1935–39			61A6088	42c
1935–40	61A6087	42c		
DeSoto 1928–33	61A6085	42c	61A6085	42c
1934–40	61A6087	42c		
1934–39 (Except SG S-2)			61A6088	42c
Ford All, 1939–41	61A6083	42c	61A6084	42c
G.M.C. ½ Ton, 36–39	61A6090	45c	61A6089	45c
Hudson 1936–40 (Ex. 112, 90)	61A6092	42c	61A6092	42c
Mercury 1939–41	61A6083	42c	61A6084	42c
Olds. 6-8, 1934–36	61A6092	42c	61A6092	42c
6-8, 1937–40			61A6092	42c
Plymouth 4, 1928–32	61A6085	42c	61A6085	42c
6, 1933–34	61A6085	42c	61A6086	42c
1935–40	61A6087	42c		
1935–39			61A6088	42c
Pontiac 1936–41 exc. 1936 Mas. 1935–41	61A6092	42c	61A6093	42c
Terraplane 1936–38	61A6092	42c	61A6092	42c

M261 A 6091—*For Other 1930–41 Cars Not Listed Above.* **State Make, Year, Model, Serial Number, and Whether for Front or Rear. Shipped from** Chicago Factory usually in 3 extra days. Ship. wt. 1 lb. 85c

(E) Complete Master Cyl. Kits — 55c Complete Set

For reconditioning master cylinder. Includes piston, boot, valve, cup, return spring, instructions.

Ship. wt. 7 oz.	Article No.	Price
Auburn 1928–30	61A5995	55c
1932–36	61A5989	55c
Buick 40, 1936	61A5989	55c
40, 60 1937–41	61A5988	55c
Chev Pass. & ½-Ton 36–41	61A5988	55c
Chrysler 1929–36; C17, 1937	61A5995	55c
1937–40 (Except C17)	61A6094	59c
Dodge 1929–36	61A5995	55c
1937–40	61A6094	59c
DeSoto 6, 4 and 6 cyl. 1928–36	61A5995	55c
1937–40	61A6094	59c
Ford 34, 1, 1½ Ton 1939–40	61A5995	55c
All Pass. 39–41	61A5996	55c
G.M.C. ½ Ton 1936–39	61A5988	55c
Hudson 1936–40	61A5989	55c
Mercury 1939–41	61A5996	55c
Olds. 1934–38	61A5989	55c
1939–40	61A5988	55c
Plymouth 1928–36	61A5995	55c
1937–40	61A6094	59c
Truck 1937–40	61A5995	55c
Pontiac 1935	61A5989	55c
1936–41	61A5988	55c
Terraplane 1936–38	61A5989	55c

M261 A 5969—*For 1930–41 Cars Not Listed.* **State Make, Year, Model, Serial No. Shipped from** Chicago Factory in 3 extra days. 85c

Rebuilt Brake Cylinders—Factory Tested

Honed, fitted with new pistons, cups, springs, valves, boots—assembled. Master cylinders have new stop light switch. Instructions. No fluid. (order at left). Keep mounting screws, fittings. For cars and ½ ton Trucks. *Use Same Exchange Plans as Brake Shoes.*

Fits Only Make, Model Listed	Article No.	Full	Exch.
(F) Wheel Cylinder Assemblies (Ship. wt. 2 lbs.)			
Chev. 1936, FD less knee action, Front	61A5931	$1.55	$1.05
1936, FD; all 1937–40 Rear	61A5932	1.55	1.05
1936, FA; all 1937–40, Left Front	61A5933	1.55	1.05
1936, FA; all 1937–40, Right Front	61A5950	1.55	1.05
Plymouth, Dodge 6.			
1930–34, All Front Ex. DL; 1930–32 Rear	61A5921	1.39	89c
1933–34 All, Rear	61A5922	1.39	89c
1935–38 Left Front only	61A5923	1.39	89c
1935–38 Right Front only	61A5924	1.39	89c
1935; also 1937–38 Left Rear only	61A5934	1.39	89c
1935; also 1937–38 Right Rear only	61A5935	1.39	89c
1936 Left, Rear only	61A5951	1.39	89c
1936 Right, Rear only	61A5952	1.39	89c

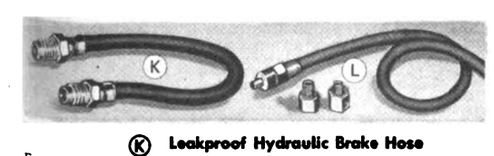
Wheel Cylinder Assembly For Other Cars

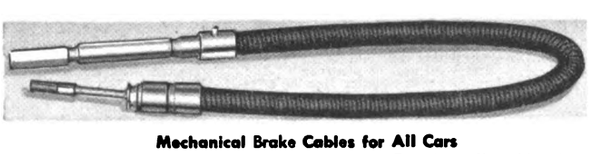
M261 A 5971—For Buick 40-60, 1935-40; Olds. 6-8, 1935-40; Pontiac 6-8, 1936-40; Ford V-8, Mercury 8, 1938-41; Chrysler, DeSoto, 6-8, 1930-39. **State Make, Year, Model and Serial No. Shipped from** Chicago Factory. Full Price... $1.79; Exchange Price... $1.29

Fits only Make, Model Listed	Article No.	Full	Exch.
(G) Master Cylinder Assemblies (Ship. wt. 4 lbs. 4 oz.)			
Chevrolet 1936, Master 6 Pass. Cars	61A5925	$2.98	$1.98
1937–39 (All Models)	61A5927	2.98	1.98
Plymouth 1928–30. Pass. cars only.	61A5919	2.69	1.69
1931–36. Pass.; Dodge 6, 1930–36 Pass.	61A5920	2.69	1.69
1937–38–39–40. Pass.; Dodge 1937–40 Pass.	61A5953	2.69	1.69

Master Cylinder Assembly For Other Cars

M261 A 5970—For Buick 40, 60, 1935-40; Olds. 6-8, 1935-40; Pontiac 6-8, 1936-40; Ford V-8, Mercury 8, 1938-41; Chrysler 6-8, DeSoto 6-8, 1930-39. **State Make, Year, Model, Serial No. Shipped from** Chicago Factory usually in 3 extra days.
Full Price.... $3.49 Exchange Price..... $2.49





(K) Leakproof Hydraulic Brake Hose — 67c

For connecting hydraulic brake lines to wheel cylinder. Made of flexible fabric and rubber—tested under pressure. Rust-resisting fittings are permanently attached to hose. **Fits passenger car, front and rear brakes,** unless stated otherwise.

For Plymouth, Dodge, DeSoto, Chrysler

61 A 5991—Fits **Plymouth** 1928-30; **Dodge**, 1928-31; **Chrysler** (except CM) 1928-31; **DeSoto** 1928-30. Ship. wt. 7 oz. Each 67c

M261 A 5999—**Fit all Other Passenger Cars** equipped with hydraulic brakes. **State Make, Year, Model and Serial Number of car.** Also state whether hose is for front or rear brakes. **Shipped from stock at Factory** in Chicago usually in 3 extra days. Ship. wt. 7 oz. Each 67c

(L) **Hydraulic Automatic Bleeder Hose.** Automatic check valve keeps air out of system. One man can bleed lines easily.

61 A 5994—Shipping weight 4 ounces. Each 35c

Mechanical Brake Cables for All Cars — 75c

Replace original. Inner cable works within waterproof housing.

Ship. wt. ea. 1 lb. 10 oz.	For	Article No.	Ea.
Buick, 1931–33, 50, 60, 80, 90	Front	61 A 5955	75c
Chevrolet 1930–32; 1933 Master 6; All 1930–33 Trucks	Front	61 A 5955	75c
1934–35 Master 6	Front	61 A 5964	75c
1934–35 Standard 6	Front	61 A 5968	75c
1934–35 Standard & Master 6	Rear	61 A 5965	75c
Pontiac, 1929; Hupmobile, 1930, 6-cyl	Front	61 A 5958	75c
Pontiac 1929, Hup. 1930, 6-cyl.	Rear	61 A 5959	75c
Pontiac 1933	Front	61 A 5955	75c

For Cars Not Listed at Left.—State Make, Year, Model, Serial No., Wheel base—and if Front or Rear. **Be sure to State Wheel Base. Shipped from Stock at Factory** in Chicago usually in 3 extra days.

M261 A 5967—For Bendix Brakes. (No grease fittings). Ship. wt. 1 lb. 9 oz. Each $1.19

M261 A 5968—For Steeldraulic and Huck Brakes. Ship. wt. 1 lb. 9 oz. 79c



Replacement Wheels for Fords

Duplicate original equipment on 1935-39 V-8 Fords. Fit passenger cars only. *Mailable.*

461 A 2282—16-inch 1935, V-8. Wire wheel with riveted spokes. Black finish. Ship. weight 24 pounds.... $3.49

461 A 2280—16-in. 1936-39 V-8. Stamped Steel Wheel. Durable black finish. Ship. wt. 17 pounds.... $2.69

CB AS WARDS 965

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Wrenches

Order all the tools you need on one Time Payment order. For details see inside back cover.



FOR CARS FOR PLANES FOR TRUCKS

Important About Wrench Finishes

Wards will supply all Wrenches and Tools in the finishes described as long as available. But chrome and nickel used for finishes are vital military materials and if the supply is restricted, Wards, cooperating with the National Defense Program, will make substitutions. These will carry Wards full guarantee.



WHICH WRENCH SET SHALL I BUY?

In Socket Wrenches Wards offer three qualities. **Good**—Wards Carbon Steel; **Better**—Wards Chrome Vanadium Steel; **Best**—Wards Chrome Molybdenum Steel Speedmaster. We want you to buy the quality that best serves your needs, so we state the plain facts for you to judge.

GOOD—Wards Carbon Steel. If you are an amateur mechanic and use tools only occasionally around your car, this grade will serve the purpose. Although this type of tool is serviceable for many jobs, it will not give the precision performance and tough service of Wards Chrome Vanadium or Chrome Molybdenum Steel.

BETTER—Wards Chrome Vanadium Steel. (Supreme Quality). Made of tough Chrome Vanadium Steel (S.A.E. Formula No. 6140). It has 40% greater tensile strength than Carbon Steel—80% higher yield point. For garages, repair shops and general use by professional mechanics, we recommend them. They offer such time saving features as clean-broached sockets that give non-slip grip, reversible ratchets, and thin walled sockets with tapered nose that allows work in tight places.

BEST—Wards Chrome Molybdenum Speedmaster. Our finest tools—in every way equal to the finest nationally advertised Wrenches which usually sell for considerably more. Made from Chrome Molybdenum Steel, the toughest steel available—has 10% more tensile strength and a yield point 20% higher than Chrome Vanadium Steel. Every part is specially designed for fast, speedy work, built light in weight and perfectly balanced for easy handling and properly proportioned for the skilled precision work such as required in Airplane and Automotive Factories. Built into these tools are the finest design, construction, and long life features found only in finest quality tools.

½, ¼-In. Drive—Chrome Vanadium

$14.45 Cash
37 Pieces
$2.50 A MONTH

- **Save $10.55—Same Quality Sells for $25 Elsewhere. Made of SAE 6140 Chrome Vanadium Steel.**
- **Complete Assortment of Sockets Handles and Parts in ½ and ¼-Inch Drive.**
- **Heavy Steel Box, with Ample Room, Easily Worth $4 Alone.**

Wards Supreme Quality. A complete Socket Set. Selected for utility—not padded with miscellaneous odd tools that you rarely or never use.

½-Inch Drive Parts:—15 Twelve-point Sockets and 4 Eight-point Sockets (see picture for size); 1 Universal Joint with male and female fittings; 1 Flex Handle (18 in. long) with Cross Bar; 1 Reversible Ratchet (10¼ in. long); 1 Ratchet Adapter; 2 Extensions (5⅜ and 9⅞ in., long); 1 Sliding T-Bar Handle (10¼ in. long); 1 Speeder Handle (18⅛ in. long).

¼-Inch (Midget) Drive Parts:—3 Six-point, 3 Twelve-point, 3 Eight-point Sockets (see sizes above); 1 Flex Handle with Cross Bar; packed in separate steel box. Complete set is packed in extra large steel box 19 by 7⅛ by 8½ in. (large enough to handle all of the average mechanic's tools) with handy lift tray and built-in compartments. Non-sag, piano-hinged lid opens in two parts—won't tip. With snap catches, locking hasp, and leather handle. Buy on Wards Time Payment Plan—see Inside Back Cover.

461 A 9851—Complete 37-Pc. Wrench Set in Steel Box as pictured. Ship. wt. 23 lbs. *Mailable.* On Terms: $2.50 Dn., $2.50 a Mo. Cash Price..**$14.45**

461 A 9852—Same Outfit as 461 A 9851 above, but without midget set. Ship. wt. 22 lbs. *Mailable.* On Terms: $2 Down, $2 a Month. Cash Price **$13.25**

28-PIECE ½ AND ¼-IN. DRIVE SET—12 most popular ½-in. drive, 12-point Sockets (⅜ to 1⅛ in.); 1 Flex Handle (11½ in.) with Cross Bar; 1 Ratchet (10¼ in.); 1 Ratchet Adapter; 2 Extensions (5⅜, 9⅞ in.); 1 Speeder Handle (18⅛ in.); 10-piece Midget Set; (¼ in. drive for small work), pictured above (less box). Packed in steel box with removable tray. Size 19 by 6⅜ by 6 in.
461 A 9696—(Not pictured). Wt. 16 lbs. *Mailable*.....**$9.95**

11-PIECE ½-INCH DRIVE SET—10 most used ½-inch drive, 12 point Sockets from set above. Socket sizes (⅜ to 1 in.). 11½-in. Flex Handle and Cross Bar. In steel box, size 12¼ by 2⅝ by 2 in.
61 A 9833—(Not Pictured). Ship. wt. 6 lbs.....**$4.25**

10-PIECE MIDGET SET—9 Sockets and Flex Handle with bar.
61 A 9829—In steel box. Wt. 1 lb. 6 oz.....**$1.59**

80-Piece Set of Chrome Vanadium Steel

$43 $5 A MON

- **Full Range of Openings—¼ to 1⅝ Inches.**
- **All Necessary Handles, Sockets, Extensions, Ratchets, Parts in ¼, ⅜, ½, ¾-In. Drive for cars, airplanes, tractors, etc.**

Built to same specifications as sets under manufacturer's trade name selling at $65 to $75. SAE 6140 Chrome Vanadium Steel. Almost entire turning set—not padded with miscellaneous, low-value tools that are seldom

¼-Inch Drive Parts (Midget Set)—3 Six-point Sockets; 3 Twelve-point Eight-point Sockets); 1 Flex Handle and Cross Bar (same as our 61 A 9829.

⅜-Inch Drive Parts:—7 Twelve-point Sockets; 2 Eight-point Sockets (see
1 Universal Joint with Male and Female Fittings; 1 Ratchet with Plug Adapter
T-Handle with Male and Female Head: 1 Speeder Handle (16 in.); 2 Extens
9 inches); 1 Flex Handle (9½ in.) with Cross Bar.

½-Inch Drive Parts:—15 Twelve-point Sockets; 4 Eight-point Sockets (see p
sizes); 1 Universal Joint with Male and Female Fittings; 1 Flex Handle (
Cross Bar and Male Head on end; 1 Reversible Ratchet (10¼ in.); 1 Ratche
2 Extensions (5⅜, 9⅞ in.); 1 Sliding T-Handle (10¼-in.); 1 Speeder Handle
¾-In. Drive Parts:—Heavy Duty—7 Twelve-point Sockets; (See picture f
Sliding T-Handle (18-inch); 2 Extensions (8, 16-inch).

Other Tools Included:—6 double offset Box-End Wrenches, 12 opening inch); 5 Open-End Wrenches (⅜ to 15/16 inch); 5 Screw Drivers from 4 to 12½ all length. Shockproof handles.

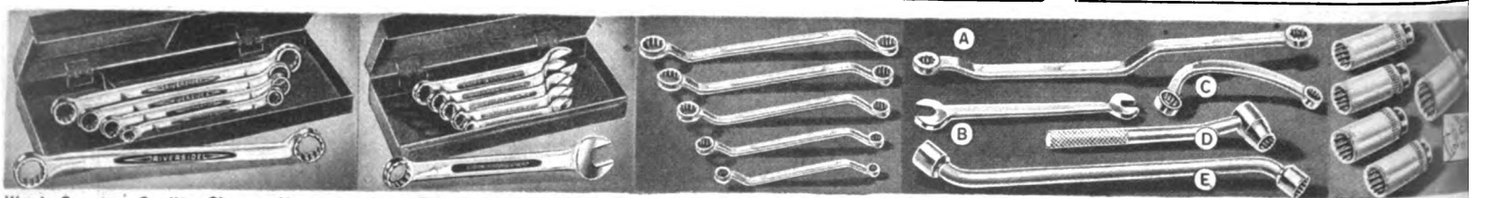
Heavy Gauge Steel Chest—Size 23 by 10 by 9 in. Space for many extra tools able tray. Piano-hinged lid. Handles on ends. Roller coasters on bottom. Lock
461 A 9853—Ship. wt. 60 lbs. *Mailable*. On Terms: $5 Dn., $5 a Mo. Cash Pric

61 A 9811—Sockets. ½-in. drive, 12-point openings. **State size.** Ship. wt. 9 oz.

Size	Ea.	Size	Ea.
7/16 in.	23c	25/32 in.	29c
½ in.	23c	13/16 in.	29c
9/16 in.	25c	⅞ in.	34c
19/32 in.	25c	15/16 in.	35c
⅝ in.	25c	1 in.	37c
21/32 in.	27c	1 1/16 in.	39c
11/16 in.	27c	1⅛ in.	43c
¾ in.	27c	1¼ in.	45c

Individual Parts for Any ½-Inch Square Drive Soc

Name of Part (with approximate length)	Ship. Wt.	Article N
Speeder Handle (18⅛ inches long)	1 lb. 14 oz.	61 A 9826
Sliding T-Bar Handle (10¼ inches long)	1 lb. 2 oz.	61 A 9827
Short Extension (5⅜ inches long)	8 oz.	61 A 9841
Long Extension (9⅞ inches long)	12 oz.	61 A 9842
Flex Handle with Cross Bar (11½ in.)	2 lbs.	61 A 9813
Flex Handle with Cross Bar (18 inches long)	2 lbs. 8 oz.	61 A 9815
Universal Joint—Male and Female Fittings	7 oz.	61 A 9823
Reversible Ratchet with Adapter (10¼ in.)	1 lb.	61 A 9814



Wards Supreme Quality Chrome Vanadium Steel Box End Wrenches. Drop Forged from S.A.E. 6140 Chrome Vanadium Steel. Accurately broached twelve-point openings with clean cut surfaces fit nuts perfectly—no slipping. Thin-walled heads fit in close places. Heat treated and tempered. Triple plated with polished heads.

45° Offset—New Design

New sloping-design offset is pitched to eliminate "rocking" common to old style abrupt offset wrenches. Fit nuts perfectly. Easier to use—helps you avoid skinned knuckles in tight places

37¢ Ea. and up

Size In	Lgth.	Lb. Oz.	Art. No.	Each
⅜ - 7/16	6-3/8	6	61 A 9723	37c
½ - 9/16	8	7	61 A 9724	38c
9/16 - ⅝	9	8	61 A 9725	42c
11/16 - ¾	10-3/8	12	61 A 9726	49c
13/16 - ⅞	12	1	61 A 9727	57c
15/16-1	14-1/4	1	61 A 9728	69c

SET **61 A 9729—Set of First 5 above.** Ship. wt. 3 lbs. 8 oz. Set.....**$2.19**

61 A 9730—Set of First 5 above in special designed steel box. Ship. wt. 4 lbs. **$2.59**

SET **61 A 9793—Short Pattern Set of 3.** Sizes ⅜-7/16; ½-9/16; ⅝-11/16. Lgths. 4½ to 5⅜ in. In bag. Wt. 11 oz. **95¢**

Box-Open End Wrenches

Balanced design. Heads set at 15° angle. Lengths graduated to give proper leverage. Same size openings on each end. Clean cut surfaces, perfect fit. Strong thin heads for manifold, clutch, carburetor, etc. Made of S.A.E. 6140 Chrome Vanadium Steel. Fully plated with polished ends.

29¢ Ea. and up

Openings	Lgth. In	Wt. Oz	Art. No.	Each
⅜-in.	4½	5	61 A 9330	29c
7/16-in.	5	5	61 A 9331	30c
½-in.	5½	6	61 A 9332	35c
9/16-in.	6	7	61 A 9333	39c
⅝-in.	7	8	61 A 9334	42c
11/16-in.	8	9	61 A 9335	45c
¾-in.	9	9	61 A 9337	49c
⅞-in.	10½	10	61 A 9338	67c
15/16-in	12	11	61 A 9339	79c

SET **61 A 9348—Set of 6.** (⅜, 7/16, ½, 9/16, ⅝, ¾ in.) in steel box. Ship. wt. 3 lbs. Set.....**$2.29**

Standard Quality Box End Wrenches

Special Analysis steel. Drop forged, heat treated. Clean cut 12-point openings. 45° offset heads to reach "hard to get" nuts.

21¢ Ea. and up

61 A 9425—⅜-7/16 in. openings. Wt. 5 oz. Each.....**21c**

61 A 9426—½-9/16 in. open. Wt. 6 oz. Ea...**24c**

61 A 9427—⅝-11/16 in. open. Wt. 8 oz. Ea...**29c**

61 A 9428—¾-25/32 in. open. Wt. 12 oz. Ea...**34c**

61 A 9429—13/16-⅞ in. open. Wt. 1 lb. Ea....**40c**

61 A 9430—15/16-1 in. open. Wt. 1 lb. 2 oz. Ea.**45c**

SET **61 A 9431—Set of first 5 above,** in bag. Wt. 2 lbs. 10 oz. Set.....**$1.39**

(A) Brake Wrench for Ford V-8 (Except hydraulic brakes). Drop Forged Chrome Alloy. 8-point openings, 7/16 and ½ in.
61 A 9667—Approx. length 15 in. Ship wt. 1 lb.....**98c**

(B) Supreme Tappet Wrenches. Finest drop-forged SAE No. 6140 Chrome Vanadium Steel, heat-treated and tempered. 9½-in. length, 15° angle jaws. Raised center section for extra strength.
61 A 9517—Size 7/16-½ in. Ship. wt. 7 oz. Ea.. **32c**; 2 for..... **60c**
61 A 9518—Size ½-9/16-in. Ship. wt. 7 oz. Ea.. **35c**; 2 for..... **66c**
61 A 9519—Size ⅝-11/16-in. Ship. wt. 8 oz. Ea. **39c**; 2 for..... **73c**
61 A 9520—Size ¾-⅞-in. Ship. wt. 9 oz. Ea.. **45c**; 2 for..... **85c**

(C) Chrome Alloy Steel Manifold and Generator Wrench. 12-point ⅝, 3/4-inch openings.
61 A 9757—Length 7⅛ inches. Shipping weight 8 oz.....**52c**

(D) Chrome Vanadium Steel Connecting Rod Wrenches Properly tapered. 12-point heads. Ship. wt. 1 lb. 2 oz.
61 A 9740—9/16-in. for Chrysler, Dodge, DeSoto, Plym., Chev. 1930–41; Pont. 1926–41; Olds., 1930–41.....**37c**
61 A 9741—21/32-in. For 1928–32 4-Cyl. Fords.....**37c**
61 A 9742—9/16-in. For all V-8 Fords except V-8 60 H.P. Thin nose.**37c**

Drop Forged Main Bearing Wrenches
(E) 61 A 9670—For Fords A, B and V-8 (except Mod. 60), ¾-in. 12-point, 3/16-in. 8-point heads. Ship. wt. 1 lb. 4 oz.....**59c**
61 A 9671—For Chev. 1929–32; Pontiac 6, 1928–32, Olds. 6, 8, 1932–41, ⅜ and 5/16-in. 12-point heads. Ship. wt. 1 lb. 10 oz..**59c**
61 A 9672—For Chev. 6, 1933–41, Pontiac 6 and 8, 1933–41; Chrysler, Dodge, DeSoto, Plym. 1930–41, 13/16 and ⅜-in. 12-point heads. Shipping weight 1 lb.....**59c**

Chrome Alloy Steel Socket

For spark plug bolts, spring and other where long reach needed broaching crossbar drive handle resisting.
61 A 9746—Six size wanted age shipping each 13 ounces
13/16 in.....
15/16 in.....
1⅛ in.....
1 in.....
⅞ in.....
¾ in.....
11/16 in.....
61 A 9747—Six First 5 with bar included ping wt. 2 lbs 4 oz. Set.



44-PIECE TOOL SET

$5.95 Set In Steel Box

Select carbon steel Wrench Set. All necessary tools for repairs on cars, trucks or tractors. Set includes all ½-in. drive parts and sockets in 561 A 9735 at right plus 3-piece Ignition Set; 3-piece Box End Wrench Set (sizes ¼-5/16, ⅜ 7/16, ½-9/16, ⅝-11/16 and ¾-25/32); 6-piece slip-on set with 5 hexagon sockets (sizes ¼, 5/16, 11/16, ⅜ and 7/16) and wood handle screw driver end. Set in enameled steel box size 18½ by 6½ by 6 in., with removable tray.
461 A 9736—Ship. wt. 16 lbs. Set.....**$5.95**



19-PIECE SET

Case-hardened carbon steel—rust-resisting. Eight 12-Point ½-in drive Sockets (⅜-¾ in.) Ratchet, L-Handle, Screwdriver Adapter, Seven ¼-in drive Midget Sockets (¼ to 7/16), L-handle. Inch pholder. Wt. 2 lbs. 14 oz.
61 A 9715—Set.....**$1.29**

30-PC. ½-IN. DRIVE SET

$3.69 Set In Steel Box

Select carbon steel Wrench Set. Case-hardened. Rust-resisting cadmium plated finish. ½-in drive—30 useable pieces in heavy steel box. Includes Speeder Handle, offset L-Handle with combination T, 13-in. Extension, 7½-in. Extension, 9½-in. Ratchet Handle, fifteen 12-Pt. Sockets (7/16 to 1 1/16 in.), three 6-Pt. Sockets (9/16 to ⅝ in.), two 4-Pt. Sockets (9/16 and ⅝-in.), four 8-Pt. Sockets (7/16 to ⅝-in.)
561 A 9735 Shipping weight 13 lbs. Set.....**$3.69**



11-PIECE SET

Case-hardened, carbon steel. Rust-resisting finish. Eight full-size ½-in. drive 12-Point Sockets, opening sizes 7/16 to 1 1/16 in. with Ratchet, L-Handle and Screw Driver Adapter. In chip holder. Shipping wt. 2 lbs. 8 oz.
61 A 9717—Set.....**98c**

9-PIECE IGNITION SET

(J) Consisting of the following much needed ignition tools. Four Drop Forged accurately-milled End Wrenches with opening sizes: 7/32, ¼, 9/64, 5/16, 3/32, 11/32, ⅜ in.; Chrome Vanadium Steel Ignition Plier; shock-proof ignition Screw Driver; tungsten Ignition File; Ignition Point Holder; and a Swedish Steel Feeler Gauge with five blade thicknesses: .012, .015, .018, .020 and .025. Packed in blue crystal finished metal box.
61 A 9796—Ship. wt. 12 oz. Set.....**$1.79**

Low Priced Ignition Wrench Set
(F) 9 carbon steel Wrenches for Ignition and Magneto work. 1 Screw Driver, 6-leaf Feeler Gauge, 1 File, in imitation leather roll.
61 A 7035—Ship wt. 9 oz. Set.....**42c**

9-Leaf, Extra Long, Thickness Gauge
(G) 9 Standard auto thicknesses (.002 to .025) 6-in. blades, ½-in. wide. For valve tappets, etc. Swedish steel.
61 A 972—Ship. wt. 2 ounces.....**45c**

Thickness Gauge-Spark Plug Tool
(H) 9 standard 3-in. elec. auto thickness (.002 to .025), 6 plug gap gauges; gap wrench; 2-in. rule.
61 A 991—Ship. wt. 4 ounces.....**25c**

Piston Ring Tools

(K) 61 A 9120—Ring Compressor. Tong type, with band of clock spring steel, adjustable, 2¾ to 4 in. Installs rings easier and faster. Breakage protection. Ship. wt. 12 oz. **59c**

(L) 61 A 9106—Ring Compressor. Compresses all rings at the same time. Takes rings up to 4½-in. diam. Ship. wt. 8 oz.. **21c**

(M) 61 A 9102—Piston Ring Skid. Ship. wt. 3 oz. Ea. **15c**

(N) 61 A 9115—Piston Ring Groover Cleaner. 5 cutters fit all sizes of grooves. Ship. wt. 8 oz...**32c**

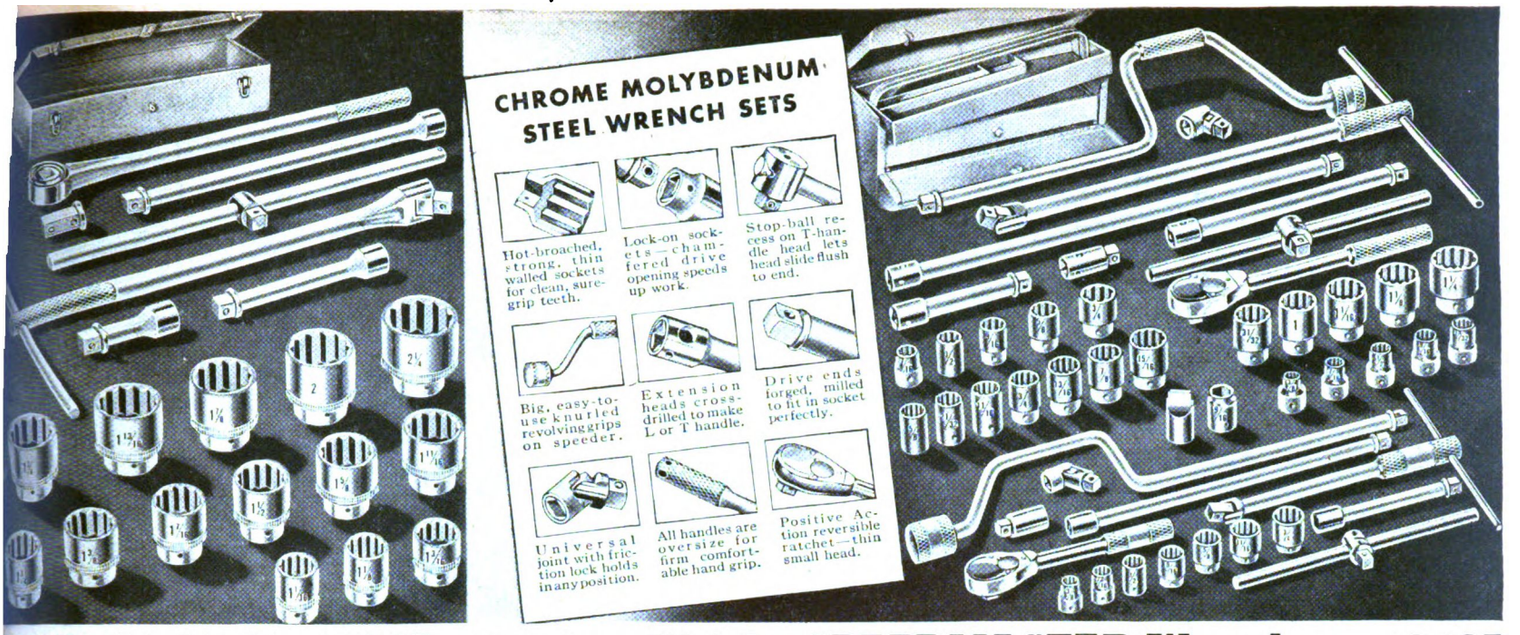
Universal Valve Lifter

(P) 61 A 2593—Ford A and except low ing type catch, thumb Made of Ship. wt. 15 oz. Price.....

Heavy Duty Valve Lifter

(R) 61 A 2577—interchangeable for all sizes of Parallel jaw action straight lift. head motors valve housing Self-locking Pressed steel. Wt. 1 lb. 8 oz...

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eavy Duty ¾-in. Drive Sets

g. Husky Chrome Alloy Steel Wrenches r extra heavy duty on Trucks, Tractors, d Power Machinery. Extra deep hot-oached 12 pt. Sockets with straight side-alls.

$10.45 Cash
10-Piece Set
$2 A MONTH

-PIECE SET—Pictured. Set includes 14 Twelve-point Sockets (1 1/16 to 2¼ in.); 1 Ratchet with adaptor (20½ in.); 1 Sliding T Handle (20 in.); 3 Extensions (16, 8, and 4 in.); one 21-in. Flexible Offset Handle. Packed in heavy gauge steel box with socket compartment, hinged lid. Box 23½x7½x3 13/16 in.
61 A 9837—20-Piece set. Wt. 42 lbs. *Mailable*.....$33.65

4-PIECE SET—11 Twelve-point Sockets (1 1/16 to 2 in.); 1 Sliding T Handle (20 in.); 2 Extensions (8, 16 in.) Steel box—20 by 8½ by 3 in. With built-in compartment, hinged lid.
61 A 9805—14-Piece Set. Wt. 27 lbs. *Mailable*.....$16.95

0-PIECE SET. Seven 12-pt. Sockets (1 1/16 to 1 7/8 in.). Sliding T Handle (20 in. long), 8, 16 in. Extensions. Box like 9805.
61 A 9804—10-Pc. Set. Wt. 18 lbs. *Mailable*.....$10.45

INDIVIDUAL PARTS FOR ¾-IN. DRIVE

61 A 9815—**Ratchet.** 20½ in. long. Wt. 4 lbs.....$6.75
61 A 9800—**Sliding T-Handle.** 20 in. long. Wt. 3 lbs.....1.69
61 A 9838—**Flexible Offset Handle.** 21 in. long with Bar. Shipping weight 4 lbs. 10 oz.....3.89
61 A 9801—**Extension.** 16 in. long. Wt. 2 lbs. 6 oz.....1.39
61 A 9802—**Extension.** 8 in. long. Wt. 1 lb. 4 oz.....1.15
61 A 9839—**Extension.** 4 in. long. Wt. 14 oz.....1.09
61 A 9803—**Sockets.** Hot Forged Chrome Alloy Steel—twelve-point openings. **State size wanted.**

Size In.	Ship. Wt.	Each	Size In.	Ship. Wt.	Each
1 1/16	9 oz.	59c	1 5/8	1 lb. 4 oz.	$1.10
1 1/8	9 oz.	63c	1 11/16	1 lb. 6 oz.	1.45
1 3/16	10 oz.	72c	1¾	1 lb. 6 oz.	1.49
1¼	11 oz.	79c	1 13/16	1 lb. 8 oz.	1.65
1 5/16	14 oz.	87c	1 7/8	2 lbs.	1.69
1 7/16	14 oz.	95c	2	2 lbs.	2.05
1½	14 oz.	$1.05	2¼	2 lbs. 12 oz.	2.85

Zephyr-Weight SPEEDMASTER Wrenches

$21.95 Cash
33-Piece Set
$3.50 A MONTH

Designed for Mechanics by Mechanics—a real precision-made Wrench Set. All unnecessary bulk and weight has been eliminated to save you hours of time. Check the features above—compare this set with the best on the market. Wards price saves you $15.00 on 33-piece set, comparable savings on others. Built entirely of Chrome Molybdenum Steel.

48 Piece Set in ⅜-in. and ½-in. Drive

½-In. Drive Parts—17 Twelve-pt., 1 Six-pt. Socket (⅜ to 1¼ in.), with V-8 and Model A Connecting Rod Sockets; 5 Eight-pt. Sockets, 7/16 to ¾ in.; ¾ in. Drag Link Bit; 1 Reversible Ratchet (10½ in.); 1 Flex Handle (18 in. with bar); 1 Sliding T Handle (18 in.); 1 Speeder Handle (18 in.); 1 Um. Joint; 4 Extensions (18, 10, 5, 2 in.).
⅜ In. Drive Parts—7 Twelve-point Sockets (sizes ⅜, 7/16, ½, 9/16, ⅝, 11/16, and ¾ in.); 1 Reversible Ratchet (7 in.); 1 Flex Handle and Bar (8¼ in.); 1 Sliding T Handle (8 in.); 1 Speeder Handle (17 in.); 1 Universal Joint; One 11 in., One 5-in., One 1½ in. Extension.
Heavy, steel box 9¼ by 8 in.—built-in cyl. lock. Tote tray with drawer type tray for small tools. Morocco finish of rich brown.
461 A 9752—Wt. 32 lbs. *Mailable*.....$30.95

33-Piece ½-in. Drive Set

Consists of ½ in. drive parts listed in 48-Piece Set—461 A 9752 above—see picture for sizes. Comes in same box as described in 461 A 9752.
461 A 9754—Wt. 28 lbs. *Mailable*.....$21.95

11-Piece ½-in. Drive Set

Ten 12 pt. sockets (7/16 to 1 inch); 1 Flex Handle with bar 11¾ inches long; steel box 12 by 4 by 2.
61 A 9755—Wt. 5 lbs. 6 oz. *Mailable*.....$5.35

15-Piece ⅜-in. Drive Set

Consists of ⅜ in. drive parts listed in 461 A 9752—see picture for sizes. Packed in steel box 18½ by 4½ by 1⅜ in.
61 A 9774—Wt. 7 lbs. *Mailable*.....$9.95

Individual ½-in. Drive Parts

61 A 9758—**Flexible T Handle and Bar.** (18 in long). Ship. wt. 2 lbs. 10 oz. Each.....$1.89
61 A 9759—**Reversible Ratchet.** (10½ in. long). Ship. wt. 1 lb. 12 oz. Each.....$2.89
61 A 9760—**Sliding T Handle.** (11 in. long). Ship. wt. 1 lb. 8 oz. Each.....98c
61 A 9764—**Speeder Handle.** (18 in. long). Ship. wt. 2 lbs. 2 oz. Each.....$1.39
61 A 9765—**Universal Joint.** Wt. 5 oz.....1.19
61 A 9766—**Extension.** (2 in.). Wt. 5 oz.....42c
61 A 9767—**Extension.** (5 in.). Wt. 8 oz.....59c
61 A 9768—**Extension.** (10 in.). Wt. 1 lb.....67c
61 A 9769—**Extension.** (18 in.). Wt. 2 lbs.....98c
61 A 9771—**Connecting Rod Socket.** Ford A-B, size 2 1/16 in. 12 point. Wt. 4 oz. Ea.....39c
61 A 9772—**Connecting Rod Socket.** Ford V-8 (3/16 in.). Six point. Ship. wt. 3 oz. Ea.....39c

INDIVIDUAL ⅜-IN. DRIVE PARTS FROM SET ABOVE

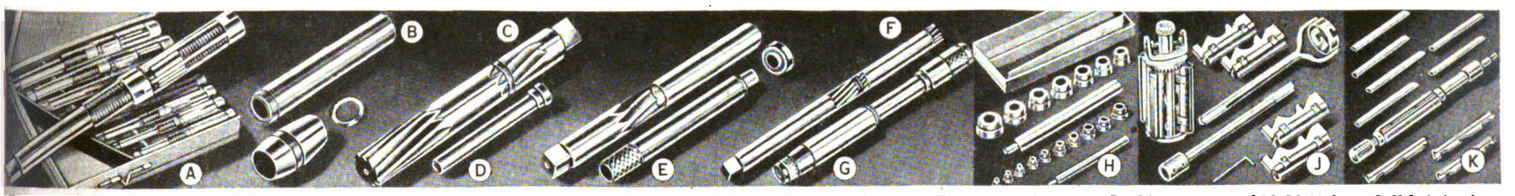
61 A 9775—**Reversible Ratchet** (7 in. long). Ship. wt. 12 oz. Each.....$2.15
61 A 9776—**Flexible Handle and Bar** (8¼ in. long). Ship. wt. 12 oz. Each.....$1.29
61 A 9777—**Sliding T Handle** (8 in. long). Ship. wt. 6 oz. Each.....67c
61 A 9778—**Speeder Handle** (17 in.) Ship. wt. 1 lb. 4 oz. Each.....95c
61 A 9779—**Universal Joint.** Ship. wt. 2 oz. Each.....93c
61 A 9781—**Extension** (11 in. long). Shipping wt. 7 oz. Each.....59c
61 A 9782—**Extension** (5 in. long) Shipping wt. 4 oz. Each.....49c
61 A 9783—**Extension** (1½ in. long) Shipping wt. 2 oz. Each.....35c
61 A 9780—**12-Point Socket**—⅜ in. drive. Ship. wt. each 3 oz. **State Size Wanted.**

Size	Each	Size	Each
⅜ in.	28c	⅝ in.	32c
7/16 in.	28c	11/16 in.	35c
½ in.	28c	¾ in.	35c
9/16 in.	28c		

Extra ½-in. Drive 12-Point Sockets

61 A 9773—**State Sizes.** Av. wts. ⅜ to ¾ in. 4 oz.; 1 1/16 to 1 in., 6 oz.; 1 1/16 to 1¼ in., 9 oz.

Size	Each	Size	Each
⅜ in.	30c	1 1/16 in.	45c
7/16 in.	30c	⅞ in.	52c
½ in.	30c	1 3/16 in.	52c
9/16 in.	39c	1 1/32 in.	52c
1 3/32 in.	39c	1 in.	57c
⅝ in.	42c	1 1/16 in.	59c
11/16 in.	42c	1⅛ in.	65c
¾ in.	42c	1¼ in.	72c



Expansion Reamers

Ⓐ Highest grade tool steel blades. Set at proper angle. Special made collars protect reamer nuts. Blades accurately sharpened. If uncertain about proper size reamer to order, write us, giving make, year, model of car and bushing for which you intend using reamer.

$1.39 Ea.
61 A 1000

Reamer Pilots

Ⓑ Hold expansion reamer steady so that it can't jump, chatter or dig in when starting to cut. Best quality steel ground true for accuracy. First 3 sizes 5 in. long.; others 6 inches. Shipping weight 12 oz.

95c Ea.
61 A 1009

Size Range Inches	Expansion Reamers Lgth. In.	Blade Lght. in.	Ship. Wt.	Article Number	Each	Reamer Pilots Article Number	Each
13/32–17/32	5¼	2	5 oz.	61 A 1000	$1.39	61 A 1009	95c
17/32–21/32	5¾	2	5 oz.	61 A 1001	1.39	61 A 1010	95c
21/32–25/32	6¼	2¼	7 oz.	61 A 1002	1.49	61 A 1011	98c
25/32–29/32	6¾	2¼	8 oz.	61 A 1003	1.49	61 A 1012	98c
29/32–33/32	7¼	2½	10 oz.	61 A 1004	1.59	61 A 1013	$1.05
33/32–37/32	7¾	2½	12 oz.	61 A 1005	1.59	61 A 1014	1.05
37/32–41/32	8¼	3	1 lb.	61 A 1006	1.75	61 A 1015	1.10
41/32–45/32	8¾	3	1 lb. 5 oz.	61 A 1007	1.85	61 A 1016	1.19
45/32–49/32	10	3½	1 lb. 14 oz.	61 A 1008	2.29	61 A 1017	1.35

61 A 1018—**First 8 Reamers in steel box.** Ship. wt. 6 lbs. 14 oz. $12.39
61 A 1019—**Same 8 Reamers with 8 Pilots in steel box.** Shipping weight 11 pounds.....19.95

Ⓒ **Piston Pin Bushing and Connecting Rod Reamers.** Fine tempered steel—ground and hardened. Fluted cutters for non-chatter working—Double cutters one roughing and one finishing, give true center. .005 oversize.
61 A 2601—For All Ford 4-cyl., 1928–32. Ship. wt. 1 lb. 14 oz. Each. $1.27
61 A 2602—For Ford V-8, 85, Mercury Pass. Wt. 1 lb. 2 oz. Ea.....1.15
61 A 2603—For Chevrolet 6, 1929–36. Ship. wt. 1 lb. 14 oz. Each.....1.27
Ⓓ **King Bolt Bushing Reamers.** Hardened steel. Ship. wt. 1 lb. 5 oz.
61 A 2597—For Ford, Mercury Pass. 1928–41; 1928–29 AA Trucks. Ea 27c
61 A 5669—For Chev., Pontiac, 1928–36 (except knee-action), Chev. 1½ Ton 1928–30, ½ Ton 1934–36.....27c
Ⓔ **King Bolt Bushing Reamer and Bushing Remover Set.**
61 A 2591—For Ford, Mercury Pass. 1928–41. Wt. 1 lb. 8 oz. Set...98c
61 A 5255—For Ford 1½-Ton Trucks, 1930–37. Wt. 2 lbs. Set.....$1.49
61 A 5666—For Chev., Pont., 1928–36 (except knee action and 1932 P-8 Pontiac 8) Chevrolet 1½ ton 1928–30, ½ ton 1934–36. Wt. 3 lbs. Set.....98c
61 A 5256—For Chev., 6 1½-Ton Trucks 1931–41. Ship. wt. 2 lbs. Set...$1.49
61 A 5259—For Plym. 1934 PE, 1935-40; Dodge, 1934–40. Wt. 2 lbs. 3 oz. 1.09
Ⓕ **King Bolt Reamers.** Two cutting surfaces. One removes burrs and flanges, the other makes finishing cut. Av. wt. 3 lbs. 2 oz.
61 A 2596—Ford, Mercury 1928–41 Pass.; 1928–29 AA Trucks. Each. $1.33
61 A 5251—For Ford 1930–37 1½-Ton Trucks. Each.....1.75
61 A 5668—For Chev., Pont. 1928–36, (except knee-action, 1932 8-cyl. P8 Pontiac), Chev. 1½ Ton. 1928-30, ½ Ton 1934–36. Each.....$1.35
61 A 5250—For All Chevrolet 6 1½-Ton Trucks 1931–41. Each.....1.75
61 A 5257—For Chev. '36 bushing type, all '37-41 Knee Action. Each.....1.29
61 A 5258—For Plymouth 1934 PE;, 1935 to 1940 Plymouth, Dodge, Chrysler, DeSoto 6. Each.....$1.39
Ⓖ **Piston Pin Inserter and Remover.** Prevents damage. Wt. each 2 lbs.
61 A 2598—For Ford A, B, 1928–32 Pass. Cars and Trucks.....79c
61 A 2599—For Ford V-8, Mercury Pass., Trucks (except 60 H.P.)...49c

Bushing Remover Set

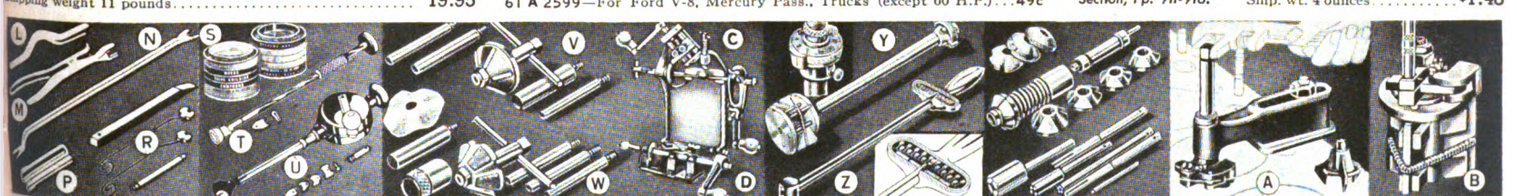
Ⓗ For removing and inserting bushings easily. Saves time and work. High quality special analysis steel, heat treated for greater strength and longer life. For all passenger cars and most trucks—wherever pressed-in bushings are used. Set includes 2 driving bodies, 17 drivers in needed sizes from 1 3/32-in. to 1¾-in. outside or inside dimensions. In handy metal box. Shipping weight 9 lbs. 4 oz.
61 A 5254..$3.98

For Other Mechanics' Tools, See Hardware Section, Pp. 911-916.

$39.00 Value—Self-Lubricating Cylinder Hone

Ⓙ For cylinders 2 1/16 to 4½ in. Operated by any ½-in. elec. drill. Use wet or dry. Buffing guides pick up grindings. Thumb control knot permits adjusting without removing hone from cylinder. Adjustable drive shaft, extension, 2 sets stone carriers, 1 coarse, 1 set fine stones. Instructions.
61 A 813—Ship. wt. 9 lbs. 8 oz. **$26.95**
Extra Stones and Guides. Wt. 14 oz.
61 A 814—2 coarse stones and 2 guides. Set.....$3.98
61 A 815—2 finishing stones and 2 guides. Set.....3.98
Ⓚ **Universal Piston Pin Hone**—For piston pin fitting, honing spindle and water pump bushing, etc. 7/64 to 1⅛ in. Use with ¼ or ½-in. electric drill or in a vise. 4 sets of abrasives: 2 coarse, 2 fine.
61 A 810—Ship. wt. 1 lb. 5 oz. $7.95
61 A 811—**Extra Abrasive Pads.** Box of 12—6 coarse, 6 fine. Ship. wt. 4 ounces.....$1.48

$26.95 Cash
$4 a Month



Valve Tools for Fords

(L) **Steel Bushing Removers.** Wt. 6 oz.
61 A 2571—For A, B.....19c
61 A 2572—For V-8, 1932–40 (ex. 60 Hp.).....19c
(M) **10-Inch Pressed Steel Valve Lifter.** For Ford A, B. Wt. 14 oz.
61 A 2570.....37c
(N) **20½-In. Chrome Alloy Steel Lifter.** Ford V-8 (ex. 60). 61 A 2592—Ship. wt. 2 lbs. 4 oz.....52c
(P) **Valve Grind. Guide** for Fords. Wt. 5 oz.
61 A 2558—A, B.....22c
61 A 2559—V-8.....22c
(R) **Bushing Remover.** Ford V-8, Mercury. 61 A 2574—Wt. 1 lb.62c

Grinding Compounds

Ⓢ 61 A 9308—**Supreme Grease Mixed.** ⅝ coarse, ½ fine. Separated 4-oz. can. Ship. wt. 7 oz..12c
61 A 9302—**Supreme, Water Mixed.** Extra fast. 4-oz. can. Ship. wt. 8 oz.....12c

Reciprocating Action Valve Grinders

Ⓣ 61 A 8363—Vacuum cup for smooth heads; bits for slotted. Ship. wt. 10 oz....25c
Ⓤ 61 A 8357—Reciprocating-advancing type. Long and short stems, tension spring, vacuum cup for smooth heads, bits for slotted. Wt. 2 lbs.....79c

Valve Seat Reamers

Tool Steel Blade Type. Ship. wt. 1 lb. 6 oz.
Ⓥ 61 A 793—One 45° head with cross bar. 4 pilots—5/16, ⅜, 11/32, 13/32 in. For cars with 1 to 2-in. valve heads and Chev. 1928.....65c
61 A 794—For Chev. 1913–34 (exc. 1928)—one 45° head, cross bar, 2 pilots 5/16, 11/32 .003 in. 73c
61 A 795—For Chev. 1935–41. Two 30° heads; for 1½-in., 1¾-in. diam. cross bar, 11/32-.003 in. pilot.....$1.19
Ⓦ **Abrasive Type**—45° set for hard or soft seats up to 2⅛. 4 pilots, 5/16, 11/32, ⅜, 13/32-in. Ford V-8 bushings, 2 abrasives, cross bar or use with speeder handle
61 A 775—Wt. 2 lbs. .$1.29
61 A 776—**Abrasives.** 6 coarse, 6 fine. Wt. 3 oz..47c

Valve Refacer

Ⓓ 61 A 8352—For all valves except chrome high-heat type. Adjustable 45° or 30° cutter; chrome tool steel. Bolts to bench. Wt. 1 lb. 12 oz. Instructions....79c

Valve Refacing Lathe

Ⓒ 61 A 849—Handles all types of valves. Ground steel cutting blade. Carriage feed regulates diamond shaped point. Takes stems 5/16 to ½ in. Sets at 30° or 45° angle. Mounts on bench or in vise. Instructions included. Ship. wt. 4 lbs.....$4.95

Sure-Mike Cylinder Gauge

Ⓨ Replaces unhandy inside micrometers and dial gauges. Checks and measures taper and out-of-roundness—shows wall irregularities. Has two adjustments: one for setting the tool to the cylinder size, the other for setting the graduated dial to zero to measure oversize or undersize in thousandths of an inch. Locks to each adjustment individually. Full range of measurements from 2⅝ in. to 4⅞ in. Packed in steel case. Instructions.
61 A 805—Ship. wt. 4 lbs.....$9.95

Steel Tension Wrench

Ⓩ Particularly necessary for proper installation of aluminum heads. Easy-to-read dial measures up to 100 lbs. pressure. Shows tension exerted at all times. Made of Nickel Alloy Steel. About 20 in. long. Fits ½-in. drive sockets. Instructions and recommended pressure Chart.
61 A 9731—Ship. wt. 2 lbs.....$5.19

Grinder

Valve Seat—Concentric type. Light body and cushion drive. Driven by any ¼-in. electric drill Speed-cut abrasives handle cast iron, steel, or stellite inserts. Complete assembly—cups, cones, pilots for all cars.
61 A 806 Wt. 4 lbs..$11.95
61 A 807—45° **Abrasives for Above.** For all cars except Chev. Wt. 4 oz. Set of 12...75c
61 A 808—**Abrasives for Chev.** 6—30° 6-45°. Set of 12. Wt. 4 oz...75c

Wards Precision Ridge Reamers

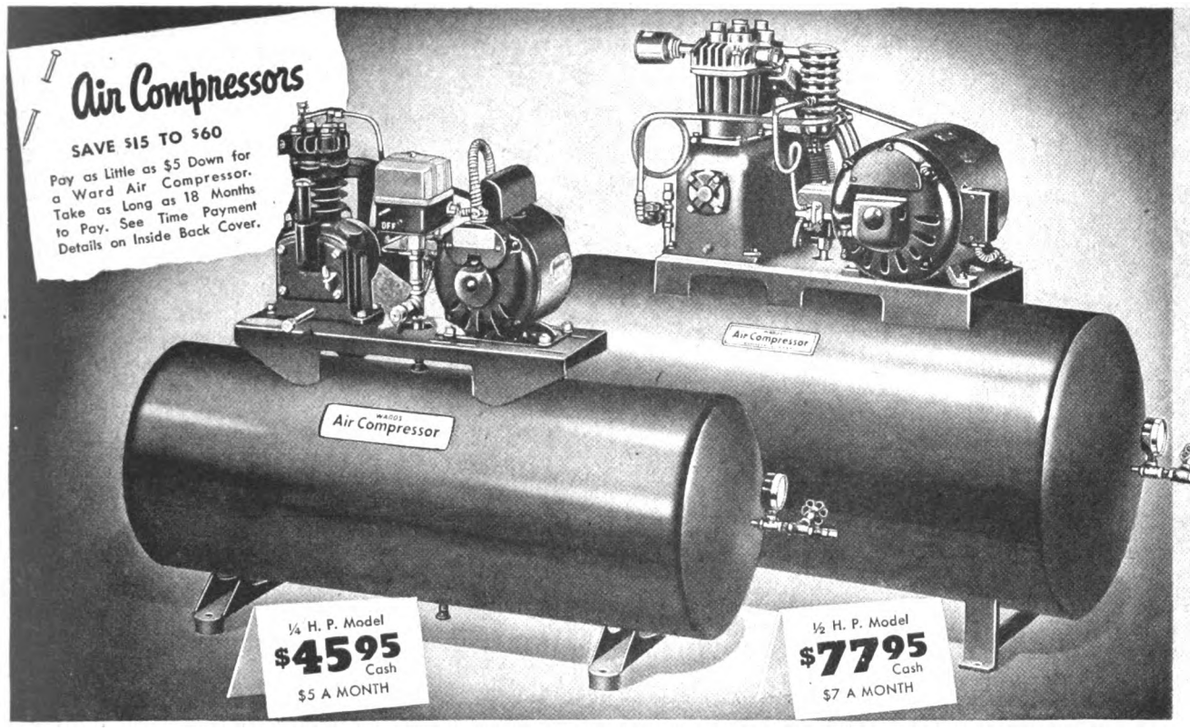
Remove ridges from top of cylinder caused by ring wear. Eliminate chance of ring breakage, ring-click noise.

$2.98 and up

Ⓐ **Post Anchor Model**—Bolts to block. Has removable jig to assure true centering. For cylinders 2.6 to 4-in. diam. except chamfered cut.
61 A 845—Ship wt. 3 lbs. 4 oz. With instructions. Complete...$2.98
Ⓑ **Centering Body Model**—Centers self. Removes ridge at any depth. 3-point contact long expansion cutters of high quality tool steel—may be re-sharpened. Adjustable diam. screw, stop device. For straight or chamfered walls. Fits 2.6 to 4-in. diam. cyls.
61 A 847—Wt. 2 lbs. Instructions.$6.50
61 A 848—**Extension Block.** Used with 61 A 847 above to handle cylinders up to 5 in. Shipping weight 1 lb. 4 oz....$2.95

CBA WARDS 967

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Check Quality

Automatic Unloader Eases Starting Load.

"Off-On" Switch —Automatic Start and Stop.

Famous Delco Electric Ball Bearing Motor.

3-Ring Pistons —Babbitted Connecting Rods.

Efficient Cooling Fins Carry Off Heat.

Wafer Exhaust Valve. Popper Intake Valve.

¼ H. P. Size—For Small Stations

This is an ideal Air Compressor for small garages and service stations where air demands are not too frequent. It has a capacity of 1.2 cubic feet with a maximum pressure of 150 lbs.—ample for large truck tires. In quality, workmanship and features it equals Wards Larger Sized Compressors. For factory use, paint spraying, etc. For larger service stations where air powered equipment will be used, we suggest ½, ½, 1-H.P., 1½-H.P. or 2-H.P. models at right.

Motor—Delco Electric ¼-H.P. capacitor Type for smooth operation.

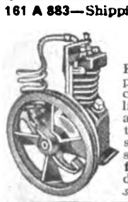
Fully Automatic—has automatic centrifugal unloader that eases compression when motor starts—takes load off motor—prevents blowing out fuses. Automatic start-stop switch. Starts motor when pressure drops to 115 lbs., stops it when pressure reaches 150 lbs.

Construction Features—Light weight Gray iron pistons for strength; 3 piston rings for positive seal, maximum compression. Honed cylinder walls; counter-balanced crankshaft. All bearing surfaces accurately ground and polished.

Braze-Weld Steel Tank—Meets all state and city safety requirements for air compressor tanks. Specifications—Tank capacity, 17.2 gal.; cylinder bore, 1⅝ in.; stroke, 2⅛ in.; compressor R.P.M., 435; 1 V belt. Overall size: 43 in. long, 12 in. wide. For 110-volt, 60 cycle A.C. only. With hose and Schrader chuck. **Shipped promptly from Stock** at Albany, N. Y.

161 A 883—Shipping weight 141 lbs. **$45.95**

Air Compressor Units Only



Replace your worn out, inefficient air compressor pump unit now, with a new Ward Unit. Save the cost of a new tank and motor. The compressor units listed below with air cleaner and flywheel are same as used on complete Air Compressors at right. Motor Pulley size listed below, when used, will develop same performance as complete air compressor units, such as R.P.M., Cu. Ft. Displacement, etc. **Shipped from Factory** at Springfield, Ill. usually in 5 additional days. For 1700–1750 R.P.M. motors. *First 3 sizes Mailable.* *Means 2 Stage Type.

For Motor	Motor Pulley	Base Bolt Space Length	Base Bolt Space Width	Wt. Lbs.	Article Number	Cash Price
¼ HP	2½ in.	5¾ in.	1⅞ in.	35	M261 A 940	$12.45
½ HP	3½ in.	5¾ in.	1⅞ in.	35	M261 A 940	12.45
½ HP	3 5/16 in.	7⅞ in.	3 in.	69	M261 A 941	24.50
1 HP	3 in.	7⅞ in.	3 in.	78	261 A 942	35.95
*1½ HP	5 in.	7½ in.	5 5/16 in.	120	261 A 943	79.95
*2 HP	6 7/16 in.	7½ in.	5 5/16 in.	140	261 A 944	79.95

Wards Heavy Duty Air Compressors

Install a New Ward Air Compressor and get the "Extra Cash" business that comes from car washing, high-pressure greasing, paint spraying, etc. Every Ward Compressor is built on the principle of BALANCED ASSEMBLY—large enough motor to run compressor without effort; large enough compressor unit to deliver its rated output without being run too fast; proper size tank so motor does not run too long at one time or too frequently. These are important factors that assure greatest economy of Air Compressor operation.

Motor—Famous Delco Electric Motor. Repulsion-Induction Type on 1, 1½, and 2-H.P. models, Capacitor Type used on ⅓ and ½-H.P. models.

Fully Automatic—With Square "D" automatic switch—starts motor when pressure falls to 115 lbs.; stops it when pressure of 150 lbs. is reached. Automatic unloader operates to ease compressor when motor starts—takes load off motor.

Efficient Cooling System—Large cast iron fins—carry off heat faster—deliver cooler air to tank—decrease amount of moisture caused by condensation in tank thus lessening danger of rust formation.

Construction Features—Light weight Gray iron pistons, 3 piston rings give positive seal—prevent blow-by, insure maximum compression. Cylinders carefully honed and polished. The counter balanced crankshaft is husky drop-forged steel. All bearing surfaces are accurately ground and polished.

Braze-Weld Steel Tank—Stronger than plain welded type. Meets all state and city safety requirements for compressor tanks (except Massachusetts).

Other Features—Easy to read dial, V-type non-slip rubber belt on ⅓, 1½ H.P.; (multiple belts on others). With 5-ply, 20-ft. rubber, fabric hose, Schrader Chuck.

PRICES OF WARDS HEAVY DUTY AIR COMPRESSORS

⅓, ½, 1 H.P. models **shipped from Stock** at Albany, N. Y.; all others from Factory at Springfield, Ill. usually in 5 additional days.

Motor	Type Unit	Ship. wt.	Art. No.	Cash Price	Dn. Pay.	Mo. Pay.
⅓ H.P.	1-Stage	211 lbs.	161 A 884	$55.95	$5.00	$6.00
½ H.P.	1-Stage	244 lbs.	161 A 882	77.95	7.00	7.00
1 H.P.	1-Stage	480 lbs.	161 A 887	119.95	10.00	9.00
1½ H.P.	2-Stage	580 lbs.	*261 A 885	182.95	20.00	12.00
2 H.P.	2-Stage	610 lbs.	*261 A 886	210.00	22.50	12.00

*Furnished with 80-gallon tank for $15.00 extra.

SPECIFICATIONS FOR WARDS HEAVY DUTY AIR COMPRESSORS

Motor Size	Overall Size Lgth. In.	Overall Size Width In.	Tank Cap. Gals.	Displace Per Min.	Cylinder Bore In.	Stroke In.	Rev. Per Minute	No. of Belts	Type of Unloader
⅓ H.P.	43	16	28.4	1.5 cu. ft.	1⅝	2½	585	1	Flywheel
½ H.P.	43	16	28.4	2.5 cu. ft.	2	2½	545	2	Press. Switch
1 H.P.	52½	20	58.25	5.0 cu. ft.	3	2½	490	3	Press. Switch
1½ H.P.	52½	20	58.25	7.0 cu. ft.	2 & 3½	2½	530	1	Press. Switch
2 H.P.	52½	20	58.25	9.0 cu. ft.	2 & 3½	2½	680	2	Press. Switch

Air Compressors are set to cut out at 150 lbs. pressure and cut in at 115 lbs. pressure.

WHICH COMPRESSOR SHALL I BUY?

The compressor you select should be large enough to ha the tools you have—you should also anticipate future demands and get a large enough size to handle that dema

The ¼ H.P. size is for very small air demand and will a ply only 1 tire line.

The ½ H.P. will handle 2 tire lines.

The ½ H.P. will handle 3 tire lines. Can be used in stati without pneumatic grease guns and other tools.

The 1 H.P. will supply 3 tire lines, 1 car hoist, and 1 gre gun, or 2 tire lines, 1 grease gun, 1 car hoist and 1 blow gu

The 1½ H.P. and 2 H.P. are for large busy stations and w furnish enough air for most any equipment.

HOW TO ORDER AIR COMPRESSORS

All Motor Specifications Must Be on Order—Make s the model you order meets electrical requirements of y community. Prices quoted in listings are for 60-cycle 110 120 and 220 to 240-volt single phase current (¼ H.P. is 110-volt only). We can supply for other currents at a sli increase in price:

32-volt—available in ¼ H.P. model only ..... $9.00 ex
115 or 230-volt D.C.—available in ¼ to 1 h.p.... 9.00 ex
110 or 220-volt, 25 or 40 cycles—¼ to 1 h.p.... 9.00 ex
220 or 440-volt—3 phase 60-cycle—¼ to 2 h.p.... 9.00 ex

For all other voltages or cycles, write to Chicago to. pric

All outfits with special motors are **shipped from Factory** Springfield, Illinois, usually in 5 additional days.

Special ⅘-H.P. Gasoline Engine

If you are without electricity, this Gasoline Model will sol your air problems. Also, handy for mounting on garage se ice trucks that handle tire repairing on road. Ample pressu for odd jobs in barn and implement sheds.

This ⅘-H. P. Model has a displacement of 1.5 cu. ft. p minute. Has a tank capacity, of 28 gallons. Powered by ⅘-H.P. Gasoline Engine (Rope Starter). Engine automa cally shuts off when tank reaches 150 lbs. pressure. Compl with 5-Ply 20-foot Hose and Schrader Chuck.

261 A 893—Shipped from Factory stock in Springfield, I usually in 5 extra days. Ship. wt. 236 lbs ..... $77.

PAY AS LITTLE AS $5 A MONTH

As Little As $5 Down for a Ward Air Compressor. Save $15 to $60 at Wards. Take as Long as 18 Months to Pay. See Inside Back Cover.





Ⓐ "Tru-Flate" Jr. Gauge and Air Chuck Shows pressure when trigger is released. Brass parts—enclosed indicator in handle with trigger release. Graduated gauge shows 0 to 120 lbs. Fits std. air connection.
61 A 977—Wt. 2 lbs. 2 oz. **$4.69**

Ⓑ "Tru-Flate" Filler. Fill customer radiators this quick, modern way. Made of Brass—rust-resisting.
61 A 980—Wt. 1 lb. **98c**

Ⓒ "Tru-Flate" Connector. Fits end of air hose for modernized greasing equipment, paint sprayers, etc. Wt. 8 oz.
61 A 975—Quick Connector **79c**
61 A 976—¼-in., Male Pipe Thread Nipple. Each **17c**

FAMOUS STROMBERG PORTABLE MOTOR ANALYZERS AND TESTERS AT SAVINGS OF $1.41 to $12.25

Ⓓ Stromberg Electroscope. $36.75 List Price. Checks Amp., voltage of car, truck electrical systems. High and low meters check systems up to 50 volts. Tests and adjustments are in accordance with car manufacturers' specifications. D'Arsonval moving coil type meter, with 2 scales protected by fuses. Heavy duty 200 watt capacity rheostat. Reverse polarity switches. Instructions. Overall dimensions 12 in. by 7 in. by 4 in. **Shipped from Factory** in Chicago, Ill. usually in 5 extra days.
M261 A 877—Shipping weight 7 lbs. **$24.95**

Ⓔ Stromberg Motor Analyzer—$22.50 List Price. Complete engine test on car or truck in 15 minutes without removing a part. Has large 2-in. compression gauge measuring up to 200 lbs.; 2-in. fuel pump vacuum gauge measuring up to 30 in. vacuum and 5-lb. pressure plus an adjustable spark gap with neon tube for checking ignition system and spark plugs. With fittings, instructions.
61 A 881—Shipping weight 4 lbs. **$10.25**

Ⓕ Stromberg Condenser Tester. $12.50 List Price. Easy to operate—uses car battery—works equally well in shop or on road. The action of neon flash indicates whether the condenser is good, poor, shorted or open circuited. Can be used to check Armatures. With instructions.
61 A 876—Shipping weight 2 lbs. **$7.95**

Ⓖ Stromberg Fuel Pump Tester. $5.50 List Price. Test the fuel pump for both vacuum pull and pressure. Registers vacuum on the tank line and pressure on carburetor line. Large 2½-in. gauge shows up to 30 in. of vacuum and 5-lbs. pressure.
61 A 879—Instructions. Ship. wt. 1 lb. 8 oz. **$2.69**

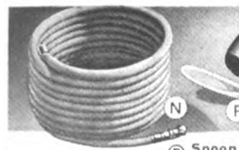
Ⓗ Stromberg Neon Timing Light—$3.85 List Price. Connect to spark plug and ground. Neon Flash on timing mark on Fly Wheel or Fan Pulley shows fast or slow timing; also shows faulty ignition. With bulb, wire leads, and snap-on clips.
61 A 843—Instructions. Shipping weight 1 lb. **$2.44**

Ⓙ Stromberg Compression Tester. $5.00 List Price. Heavy beveled glass lens. 2½-in. dial. Full 200-lb. gauge with universal fitting. Fits all spark-plug holes. Shows ring, piston, valve leakage. With instructions, compression chart.
61 A 866—Shipping weight 1 lb. 2 oz. **$2.95**

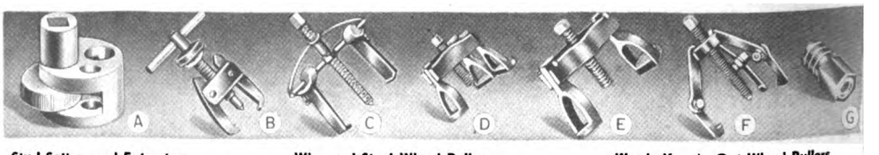
Ⓚ Compression Tester—All steel. Wi 4 adapters to fit all cars, trucks, tra tors. Test compression up to 120 lbs. Wi compression chart, instructions.
61 A 861—Ship. wt. 1 lb. **$1.2**

Ⓛ Distributor Timing Device for For V-8. Permits perfect timing of V-8 di tributor while off car. Operates on 6-vo storage battery using regular No. 63 bul Instructions. Steel box included.
61 A 878—Ship. wt. 2 lbs. **$2.9**

Ⓜ Armature "Growler." Locates ground open circuits or short circuits in a armatures for cars, and other electri motors up to 10 H.P. Instructions, leads bulb not included (use 110 volt light bulb
Shipped from Factory in Chicago, Ill usually in 5 extra days.
M261 A 801—For 110-volt A. C. only. Ship. wt. 11 lbs. **$8.95**







5-Ply Service Station Air Hose

Ⓝ 25 foot, 5-Ply Rubber Hose for any compressor. ¼-in. inside diam., 2 11/32-in. outside diam. Fabric reinforced—stronger—lasts longer. With threaded removable Schrader Chuck and ¼-in. Adaptor.
61 A 889—Wt. 4 lbs **$2.49**

Ⓟ Spoon Tire Irons. Satin finished, nickel plated drop forged steel. Hardened end, approx. 18 in. long. Wt. 2 lbs.
61 A 9704—Curved **49c**
61 A 9703—Straight **49c**

Ⓡ Rubber Tire Mallet. Heavy 2-lb. size. 15 in. Overall.
61 A 9849—Wt. 2 lbs. 4 oz. **59c**

Ⓢ Tire Regroover—Electrically heated with adjustable cutting blade. Operates on 110–120 A.C. or D.C. Professional Type with Underwriter Listed cord entering from underneath. cuts from 1/32 to ½ in. deep. With 6 extra blades.
61 A 802—Ship. wt. 1 lb. **$1.39**
61 A 803—12 Extra Assorted Cutting Blades. With instructions. Wt. 4 oz. **29c**

Tow Chain

Ⓡ Strong 14-ft. chain. Copper plated. With grab hook at each end. In cloth bag. Breaking strain 5440 lbs. Strong 5/16-in. diam. links. Electrically welded for strength. Ship. wt. 13 lbs.
561 A 6444 ..... **$1.45**

Steel Pry Bar

Ⓢ Handy Pry bar for all types of work. Pry s off gears, bearings, bushings, lifts, cylinder heads, etc. Drop forged, heat-treated chrome vanadium steel. Length 15 in. Shipping weight 1 lb.
61 A 9753 ..... 92c

Stud Setter and Extractor

Ⓐ **61 A 9794**—Handles studs from ¼ to ¾ in. (all pass., most trucks). Won't lock. Chrome-alloy steel ½-in. sq. drive stud. Shipping weight 1 lb. **$1.79**

For Battery Terminals—Gears

Ⓑ **61 A 907**—Centering wedge forces even pull on legs. Drop forged carbon steel, cadmium finish. Thin jaws for small spaces take gears up to 1½-in. diameter. Ship. wt. 12 oz. **53c**
61 A 909—Larger. Handles up to 3-in. diam. Ship. wt. 1 lb. 8 oz. **87c**

Ⓒ Pulls Timing Gears, Magneto Gears, Pump Shafts Two 3-in. drop forged arms. Screw ⅝ by 8 in. For diameters up to 6 in.
61 A 906—Wt. 3 lbs. 4 oz. **$2.10**

Wire and Steel Wheel Pullers

Easy to adjust. Use on all cars from 1929 to date (except Ford). For wire, steel demountable wheels—tough, malleable iron, hardened steel pulling screw.

Ⓓ **61 A 926**—3-arm for 5-stud. Ship. wt. 4 lbs. 12 oz. **$1.29**

Ⓔ **61 A 927**—2-arm for 4, 6, or 8-stud. Ship. wt. 4 lbs. **1.29**

Extra Heavy Duty Gear and Pinion Puller

Ⓕ Stands up to 10-ton pull. Pulls gears, pinions. Extreme flexibility for large or small jobs—use with two feet for small gears, three for large. Handles most heavy truck and tractor work. Chrome-nickel steel with hardened pulling screw 9¾ in. long, arm spread 10 inches.
561 A 928—Ship. wt. 12 lbs. **$6.25**

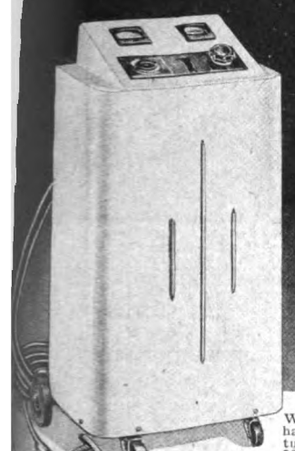
Wards Knock Out Wheel Pullers

Ⓖ Screws on end of axle. Protects threads from damage. Hardened steel. Length 2½ in. Wt. 15 oz. (Ex. 61A917—1 lb. 12 oz.)

For other cars, measure axle, count threads, order by Art. No.	Thread Per In.	Axle Diam. In.	Article Number	Ea.
Chev. 490 1915–23	18	⅝	61 A 912	13c
1924–31	16	¾	61 A 913	13c
Truck 1933–35	12	1¼	61 A 917	25c
Dodge 1927–30, 128, 129, Std. 6, Vic, 6, DA 6, San. 6, DB 6	14	⅞	61 A 914	13c
1930–36 (exc. 1932) DK 8, DO 8	16	¾	61 A 913	13c
Ford to 1939 Pass.	18	⅝	61 A 912	13c
TT Truck	14	⅞	61 A 914	13c
AA, BB Truck	12	1¼	61 A 917	25c
Plymouth All	16	¾	61 A 913	13c

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New 100-Amp. Charger



Make Extra Profits This "Quick Charge" Way. Save Your Customers Hours of Time!—Tests and Charges Battery in 30 to 45 Minutes Without Removing Battery From Car.

Write to Wards for Complete Circular

$14.95 Cash

$12.50 DN., $10 A MO.

Wards "Quick-Charger" has all the quality and features of others selling for $200. Check them: 1. Copper-oxide rectifiers for long life. 2. Combination tester and charge meter. 3. Time switch cuts charge at end of preselected period. 4. 2 meters for direct reading of voltage, amp. 5. Overload circuit breaker—"On-off" switch combined. 6. High-rate discharge for desulphating and cycling. 7. Guaranteed one full year against defects in workmanship and materials. For 110 or 220 voltage. **State voltage wanted. Shipped from Factory** near St. Paul Minn. Allow 5 extra days.

261 A 905—Ship. wt. 200 lbs. Cash Price.....$149.95

Car Top Carriers for Easy Hauling



Handy Ski Carrier — $3.29 Complete

Holds 4 pairs of skis or 2 pair of skis and a toboggan firmly. Screw clamps adjust to let skis slide into place. All you do is tighten clamps and you're ready to go. Rubber suction cups prevent carrier from scratching car top. Fits all passenger cars with built-in gutters or beveled edges. No drilling necessary. Built of channel steel, with strips of sponge rubber on inside surfaces to hold skis in position without marring. Instructions.

461 A 6481—Ship. wt. 8 lbs. *Mailable*....$3.29

Heavy Duty Top Carriers—Carry up to 300 lbs. — $3.69 and up Carrier only

$10.00 Value! Quickly attached or detached. Fits any car or light delivery sedan with built-in rain gutters or beveled edges. No drilling. Heavy steel with rubber padding at all points where it touches car. Load weight rests on outside crown. Black enamel—cadmium trim.

461 A 6485—With load trays, fittings and instructions. Load trays adjust from 41 to 45 in. (No box included.) Wt. 14 lbs. $6.79



461 A 6489—Standard Quality Carrier. Similar to above except lighter in weight. (No load trays.) For loads up to 150 lbs. Uses utility carrying box and extension bars below. Instructions (No box). Ship. weight 12 lbs.....$3.69

461 A 6486—Utility Carrying Box. Heavy steel, reinforced bottom, corners. Fits carriers above. 48 by 42 by 6 in. Wt. 44 lbs. $5.25



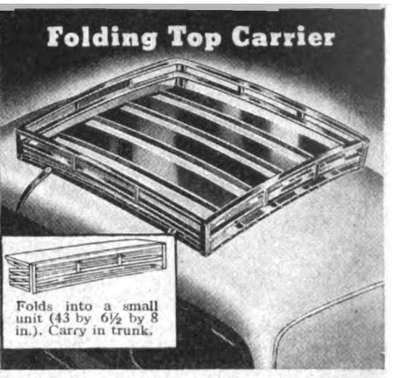
61 A 6487—Waterproofed Canvas Cover. Fits utility box above. Wt. 2 lbs. 10 oz.....$2.65

561 A 6488—Four Extension Bars For carriers above. Gives about 12 in. wider bed. Wt. 6 lbs.. 98c

61 A 6483—Load'Trays. Changes 461 A 6489 into utility carrier. Wt. 2 lbs. 8 oz. Set of 4.....59c

61 A 6480—Ski Clamps. For carriers above. Ship. wt. 1 lb. 12 oz. Set of 2 (for 1 pair of skis)..55c

Folding Top Carrier



Folds into a small unit (43 by 6½ by 8 in.). Carry in trunk.

Top Carrier—$10.00 Value! — $6.95

Save your car interior! A new handy "Utility Top" Carrier for luggage, parcels, camping equipment, etc. Handles loads up to 150 lbs. All in one piece—it's easy to install. Fits securely to top of car—built to conform to any car roof curvature.

Made entirely of steel for long service. Length 43 in.; width 43 in.; depth 6 in. Fastens securely to any metal car top with adjustable metal arms that grip rain gutters. Rubber protecting strips on bottom prevent scratching car top. Full baked Black enamel finish.

461 A 6478—Ship. wt. 35 lbs.....$6.95

Canvas Cover for car top carrier above. Waterproofed.

61 A 6479—Ship. wt. 6 lbs.....$3.98

Luggage Straps—Black cotton webbing, buckle. Ship. wts.: 4, 5, 10 oz.

61 A 6490—1 by 36 in.....10c

61 A 6492—1 by 60 in.....18c

61 A 6495—1½ by 108 in.....39c



All Wards 6-Ampere Battery Chargers Are Approved By Underwriters' Laboratories, Incorporated.

Oversize Transformer Wire (2) in Wards Chargers Give Longer Life Than Ordinary Wire (1) Used in Most Chargers.

6-AMPERE CHARGER

$29.50 Value! — $19.65 Cash

2 Sizes; 6-Battery and 12-Battery Capacity. *Approved by Underwriters' Laboratories.* New streamlined case-for wall or bench type mounting. Full 6-amp. charging rate regardless of number of batteries being charged. Vernier control provides unusual flexibility of charging rate—6 coarse and 6 fine adjustments. Increased transformer efficiency reduces operating cost and length of tube life. Charger bulb and batteries protected by standard 15 amp. fuse. Complete with charging leads, improved socket connectors and instructions. For 105–115-volt, 50–60-cycle A.C. only. *No Bulb included.* Order any 6-amp. bulb listed below. Ship. wt. 39 lbs. *Mailable.*

6-Bat. Size $3 A Month

461 A 910—1 to 6-Battery Size. **Shipped from Stock**.....$19.65

M261 A 911—1 to 12-Battery Size. **Shipped from Factory** near St. Paul usually in 5 days.....$25.95

10-AMPERE CHARGER

$19.95 Value! — $15.95 Cash

3-battery capacity with illuminated gauge to indicate charge. Charges battery in ½ time of ordinary charger, while battery is in car. With bulb, cord, plug, clips for battery, instructions. For 105–115-volt, 50–60 cycle A.C. only. Ship. wt. 16 lbs. **461 A 903**—*Mailable*..$15.95

3-Bat. Size $2.50 A Month

10-Ampere Wall Charger

8-battery size. (Similar to Charger at left.) Charges to full capacity in about 6 hours. Vernier control for charging adjustment. Standard fuse plug protects bulb from both line and battery side. With bulb, cord, plug-to-light socket, clips, instructions. For 105–115-volt, 50–60-cycle A.C. only. **Shipped from Factory** near St. Paul, usually in 5 additional days. Wt. 32 lbs. *Mailable.*

M261 A 904.....$27.35



Battery Charger Bulbs

Keep extra charger bulbs on hand. For 105 to 110-volt A.C. only. Shipping weight each, 12 oz.

6-Ampere Bulbs

Ⓕ **61 A 900**—Genuine G.E. "Tungar" Bulb. Guaranteed for 1200 hours. *Shipped Postpaid*.....$3.75

Ⓔ **61 A 897**—Gas filled rectifier-type.....2.65

Ⓔ **61 A 898**—Mercury vapor filled. Gives steady pulsating current.....$2.65

10-Ampere Bulb

Ⓔ **61 A 899**—Rectifier type mercury vapor filled. Each.....$3.95

Service Station Battery Tools

Ⓖ **61 A 9756**—**Nut Wrench**—⅜, 7/16-in. openings. Chrome alloy steel. Ship. wt. 4 oz. Each.....32c

Ⓗ **61 A 9761**—**Battery Pliers.** Range 5/32 to 1 in. 30° angle jaws. Chrome alloy steel. Shipping weight, 10 ounces. Each.....67c

Ⓙ **61 A 890**—**14-in. Jumpers.** Lead covered spikes; rubber covered wire. Ship. wt. ca. 4 oz. Six for 39c; Each..7c

Ⓚ **61 A 888**—**Cell Tester.** Draws 200 amps. (Equal to starter load)—2-in. voltmeter reads from 0 to 2.6 volts. Wood handle. Hooded self-lighting light permits easy reading. Ship. wt. 1 lb. 6 oz. Each.....$2.98

61 A 891—Same as above, without light.....1.62



Fender Repair Set. Full weight, correct shapes for any dent. Strong cast steel dollys.

61 A 995—5-Piece Kit as pictured—Mushroom Dolly, Toe Dolly, Car Track Dolly, Fender Flange Tool and Drop Forged Hammer. Ship. wt. 9 lbs. 8 oz. $1.85

61 A 996—3-Piece Kit—Heel Dolly, Toe Dolly, cast iron Hammer. (Not Pictured.) Ship. wt. 4 lbs. 8 oz.....62c

61 A 994—Drop Forged Hammer only from set pictured. Shipping weight 1 lb....44c

Handy Pliers

Ⓛ **Brake Spring Hook** grips spring—gooseneck grips band. Wt. 6 oz. **61A9795**—8½ in. long....87c

Ⓝ **Ignition Pliers.** Chrome Vanadium steel. 4½ in. wt. 3 oz. **61 A 9763**..47c

Ⓜ **Water Pump.** Adjusts ⅜ to 1½ in. Wt. 10 oz. **61 A 9762**..72c

Tire Wrenches

Ⓟ Forged from high Carbon Steel Approx. 16 in. long with 20-in. hex. handle. Ship wt. 7 lbs. 14 oz. **61 A 9790—For all Ford Trucks**—3 openings 13/16 square, 1⅛, 1½ hex..$1.39

61 A 9791—For all Chev. Trucks—3 openings ⅞ sq. ⅞, 1¼ hex...$1.39

Ⓡ **4-Way Wrench.** For rim, wheel nuts. Forged steel. Cadmium plated. Sockets ⅝, ⅞, ¾, 13/16 in. **61 A 9798**—Length. 14 in. Ship. wt. 3 lbs. .....45c **61 A 9799**—16 in. overall. Deep sockets. Sizes as above. Wt. 3 lbs. 6 oz 65c

Automatic Safety Trailer Chains

Ⓢ An added precaution for trailer owners! Two 3½ ft. Safety Trailer Chains fasten to either side of rear bumper. Required in some states. Patented fastener prevents from vibrating loose. Bright finish. Packed two chains in box.

61 A 9673—3/16-in. Links. Ship. wt. 2 lbs. 12 oz..89c

61 A 9674—Heavy duty ¼-in. Links. Wt. 4 lbs. $1.45

Fast-Snap Coupling Pin

Ⓣ For quick and positive coupling of trailers and farm implements. Spring steel snap lock prevents pin from dropping out of place. Pin made of heat treated carbon steel. Rustproof finish.

61 A 9892—Ship. wt. 10 oz.....49c

Trailer Coupler Clamps

Use with ball-socket couplers. Heavy steel stamping.

Ⓥ **61 A 9897**—Fits single bar bumpers; 3¼ to 4½ in. wide. Ship. wt. 2 lbs. 2 oz.....39c

Ⓦ **61 A 9617**—Fits single bar bumpers; 3¼ to 4½ in. wide. Ship. wt. 2 lbs. 14 oz.....59c

Ⓧ **61 A 9990**—Heavy duty. Fits single bar bumper up to 4½ in. Takes ¾-in. bolt. Wt. 4 lbs...85c

Ⓤ **61 A 9890**—Double Clamp with 1½ by ¼ by 18-in. steel bar. Fits single bar bumpers or bumperettes under 4½ in. wide and late cars with bumper stops. Ship. wt. 6 lbs.....$1.29

Big New Heavy Duty 2-Wheel Auto Trailer

Load capacity of 1800 lbs.—amply large for light deliveries. Wood body tightly sealed to prevent grain seepage, etc.—reinforced for strength. Outside overall dimensions: 60 in. long, 49 in. wide, 11½ in. deep. Capacity of box approximately 19 cu. ft. With removable front and tail gates. Body and chassis painted green. Chassis made of heavy 2½ by 2-in. angle iron. Frame sides reinforced with 1½ by 1½-in. angle iron cross braces. Ball and socket hitch included. Wheels equipped with Timken Bearings and 4.00–16 drop center rims for 5.25–16, 5.50–16, and 6.00–16 tires. (*Tires not included.*) 6 leaf springs included—equipped with Alemite grease fittings. Automotive type demountable disc wheels, with pressed steel caps. **Shipped from Factory** in Quincy, Ill., usually in 3 extra days.

261 A 9966—1800-lb. Capacity Trailer. With body, wheels, springs, ball and socket hitch. (No tires, fenders, flareboards.) Ship. wt. 300 lbs.....$39.95

261 A 9967—1200-lb. Capacity Trailer. Without springs. Chassis of heavy 2½ by 2-in. angle iron, securely fastened to body. With body, ball and socket hitch, wheels. (*Tires, fenders, flare-boards not included.*) Ship. wt. 244 lbs.....$31.95

261 A 9905—Fenders for above trailers. Ship. wt. 29 lbs. Pair.....4.49

261 A 9906—Flareboards. 5 in. wide, 60 in. long. With irons. Wt. 15 lbs. Pair. 2.29

261 A 9968—Chassis Only, with wheels, ball and socket hitch. (*No springs, tires.*) Same chassis as included with 1200-lb. trailer above. Ship. wt. 145 lbs.....$19.95

61 A 9943—Waterproofed Trailer Cover. Size 8 ft. by 6 ft. Made of 12 oz. double filled Olive Drab Canvas. With tie ropes, screws. Wt. 7 lbs. 14 oz.....$4.19



61 A 6813—Stop, Tail Light. With bulb. Ship. wt. 12 oz.....59c

61 A 6799—License Plate Bracket. Ship. wt. 8 oz.....27c

61 A 6812—Tail Light Wire Connector. 2-piece. Ship. wt. 3 oz...16c



Tire and Tube for One-Wheel Trailers

M264 A 188—Tire. 16 by 4.00–8, 4-Ply Riverside. Shipped from Factory near La Crosse, Wis. Allow 5 days. Ship. wt. 7 lbs. each.....$4.65

M264 A 749—Tube. Size 16 by 4.00. Ship. wt. 2 lbs. Ea.....1.15

Build Your Own Trailer

Build your own 4-wheel trailer by using the chassis from an old Ford T or A, or Chevrolet. All you need buy is a trailer hitch (see listings below), a ball and socket coupler, (see at right), and a bumper clamp (see above). You probably have enough old lumber around the place to build your box, so your expense is cut to a minimum. All the parts you need can be included in a Time Payment Order.

Trailer Couplers—for cars, trucks, tractors. With automatic safety lock. Made of certified malleable castings, balls with steel bolts. Always at proper tension. Tubular construction in locking section gives greater strength. Painted red and aluminum.

Ⓐ **61 A 9993**—Semi-streamlined. For 2, 4-wheel trailers. Wt. 4 lbs..87c

Ⓑ **61 A 9994**—Semi-streamlined. For Medium and heavy 2 and 4-wheel trailers. Ship. wt. 4 lbs. 8 oz.....$1.25

Ⓒ **61 A 9995**—Fully streamlined design. For medium and heavy 2 and 4-wheel trailers. Ship. wt. 4 lbs. 8 oz.....1.49

Ⓓ **61 A 9996**—Fully streamlined design. For heavy duty truck and tractor service. Ship. wt. 9 lbs.....2.19

61 A 9657—Extra Ball. Diam. 1¾ in.; ⅝ in. bolt; for 61 A 9993, also fits 9994. Ship. wt. 1 lb. 4 oz.....37c

61 A 9998—Extra Ball. Fits 61 A 9993, 9994, 9660, 9995. Diam. 1¾ in.; ⅜ in. Bolt. Ship. wt. 1 lb. 8 oz.....43c

61 A 9999—Fits 9996. Diam. 2¼ in., ⅞ in. Bolt. Wt. 1 lb. 8 oz.59c

Ⓔ **Semi-Streamlined Spring-Type Trailer Coupler**

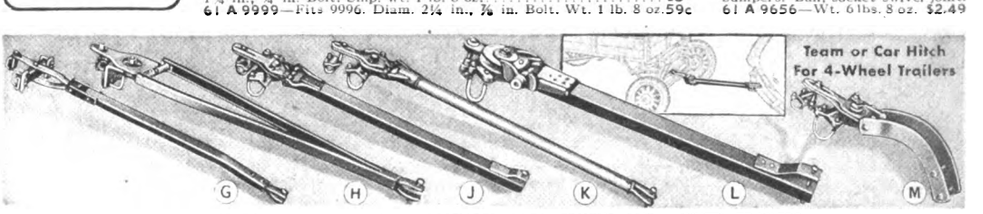
For light and medium 2 and 4-wheel trailers. Two heavy springs take up jar and backlash. Heavy malleable iron and steel bolts. Safety locking device. Lock enclosed.

61 A 9660—Wt. 9 lbs.....$1.89

Ⓕ **Vise-Clamp-Type Coupler**

For medium and heavy 2 and 4-wheel trailers. Malleable iron jaws fasten directly to any single bar bumper from 3¼ to 5¾ in. wide—lower jaw removable for wide bumpers. Ball, socket swivel-joint.

61 A 9656—Wt. 6 lbs. 8 oz. $2.49



PERFECT TOWING HITCHES FOR PASSENGER CARS, TRUCKS AND 4-WHEEL TRAILERS

Controls steering of towed vehicle, without shimmy or side-sway. Has "Fifth Wheel" construction (except 461 A 9896)—a circular bearing which permits free turning under heaviest loads over all roads.

Ⓖ **For Light Passenger Cars** where continuous rough service is not needed. Tongue made of 2 in. by 1 in. channel steel, 40 in. long. Strong steering control. Fits front axles not over 2 in. high. *Mailable.* Wt. 20 lbs. **461 A 9896**..$2.79

Ⓗ **For Light or Medium-Weight Cars** where a stronger Hitch is needed. 42-inch pressed steel tongue is made with two 1½ by ¾ by ⅛-in. channel bars. "Fifth-Wheel" construction. Wt. 24 lbs. *Mailable.* **461 A 9965**..$3.79

Ⓙ **For Medium and Heavy Pass. Cars.** Heavier than two at left. Will handle light trucks. Has 2-inch channel steel tongue, 40 in. long. Turn-table of heavy malleable iron with "Fifth Wheel" construction. Wt. 22 lbs. *Mailable.* **461 A 9872**...$4.65

Ⓚ **For Light or Medium Trucks** where added strength is required for rough service. Has 1¾-in. tubular steel tongue, 45 inches long. Heavy malleable iron turn-table, with "Fifth Wheel" construction. Wt. 25 lbs. **461A9873** *Mailable*..$5.98

Ⓛ **For Heavy Trucks.** Constructed to pull the heaviest trucks. Has a heavy 3-in. channel steel tongue, 48 in. long. Tough malleable iron turn-table with "Fifth Wheel" construction for easy turning. Read "Fifth Wheel" construction story at left. Ship. wt. 62 lbs. *Mailable.* 4[illegible]71 $10.50

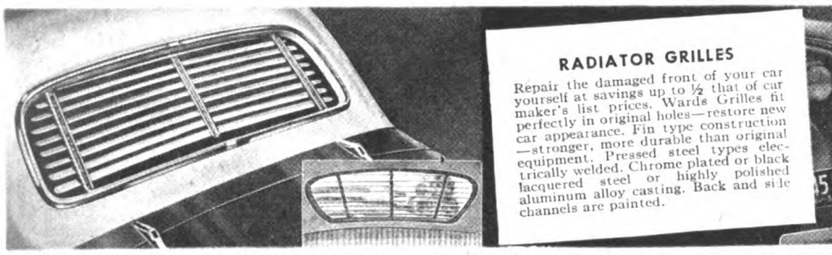
Ⓜ **Team Hitch**

Converts auto chassis into 4-wheel trailer. Malleable steel turntable with "Fifth Wheel" construction. Tie rod connection. Wt. 17 lbs. *Mailable.* **561A9902** $3.89

BA 969

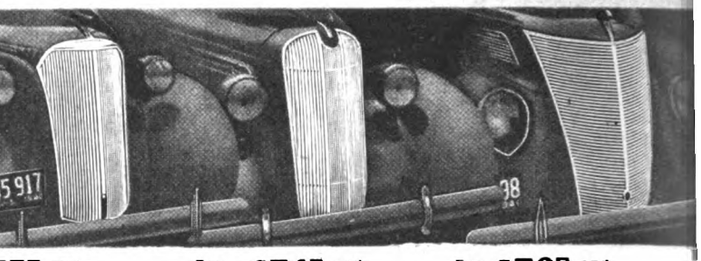
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Add the AUTO ACCESSORIES You Need to Your



RADIATOR GRILLES

Repair the damaged front of your car yourself at savings up to ½ that of car maker's list prices. Wards Grilles fit perfectly in original holes—restore new car appearance. Fin type construction —stronger, more durable than original equipment. Pressed steel types electrically welded. Chrome plated or black lacquered steel or highly polished aluminum alloy casting. Back and side channels are painted.



Rear Window Venetian Blind—Keeps Out Sun, Heat, Headlight Glare

Stops glare from headlights of cars in back. Basswood slats held rigidly by steel brackets—can't rattle. Painted Ivory. Does not obstruct rear vision. Easily installed. Spring fastener. **State Make, Year, Model and Body Style of Car.**

61 A 7041—For following 1941 Cars: DeSoto, Dodge 2 and 4 Door—Olds, 76, 4 Door; 78, 2 Door—Pontiac Streamliner 2 and 4 Door—Chry. Royal 2 and 4 Door—Buick Century 66-S; Special 46; 46-S, 2 Door; Century 61, 4 Door. Ship. wt. 5 lbs. $3.25

61 A 7040—For Models marked x. State make, year, body style, model. Wt. 4 lbs. 8 oz. ... $2.39	2 Dr.	4 Dr.	Bus. Cpe	Clb. Cpe.
Buick 1937-39 Spec., Century 1940 Spec.; **Chev.** 1940; **Olds.** 1939 6-60, 6-70, 8-80, 1940 6-70; **Packard** 1938-39 6, 1940 110, 1941 120; **Pont.** 1939 Std., DeL., 8	x	x	x	x
Chev. 1937-39 Mast., Mast. DeLuxe, 1941 Mast DeLuxe & Spec. DeLuxe; **Mercury** 1939-41; **Pontiac** 1940 Spec. 6, DeLuxe 6 & 8	x	x	x	x
Chrys. 1937-40 Royal, **Olds.** 1940 6-60, 1941 60; **Pontiac** 1937-38 6 & 8, 1941 Cust., DeLuxe & Streamliner	x	x	....	....
DeSoto 1937-38, 1939-40 DeLuxe & Cust.; **Dodge** 1937-39, 1940 Spec. & DeLuxe; **Ford** 1937-38, 1939-40 60, 85, DeLuxe, 1941 DeLuxe & Super DeL **Plymouth** 1937-41	x	x	x	....
Pontiac 1940 Torpedo 8; **Olds.** 1941 Spec. 96		x		....

For Chev. $3.75 and up

Filling orders for cast grilles is dependent upon government defense orders for aluminum which is a vital military material. Dodge is stamped steel; others cast aluminum alloy. No molding. **Shipped from Factory** in Chicago, usually in 5 extra days.

Make and Year	Article No.	Ship. wt	Price
Buick 1936 All	M261 A 4075	12 lbs.	$15.45
1937 All	M261 A 4078	12 lbs.	14.35
Dodge 1937 All	M261 A 4094	13 lbs.	11.45
Olds. 1935 6 cyl. and 8 cyl.	M261 A 4088	9 lbs.	13.79
1936 6 and 8 cyl.	M261 A 4822	12 lbs.	13.75

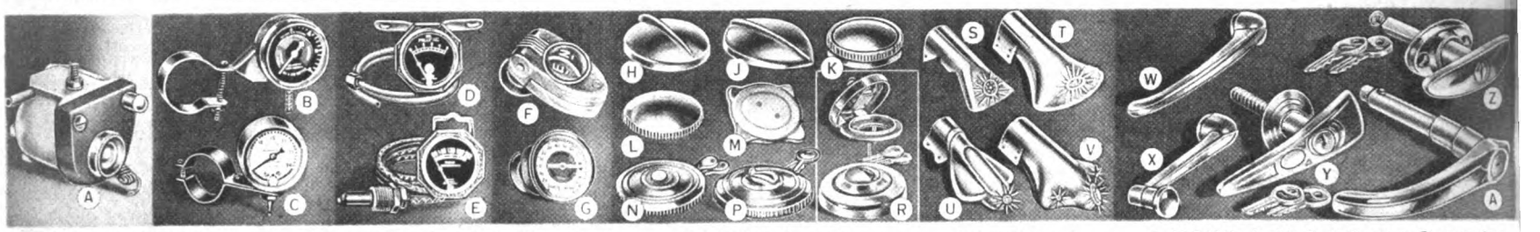
For Plymouth $5.45 and up

For Ford, Chevrolet and Plymouth. Shipped from Stock. All pressed steel except 1940 Ford—cast aluminum alloy.

Make and Year	Molding	Finish	Article No.	Ship. wt.	Price
Ford V-8 1936	All	Chrome Plated	161 A 4063	19 lbs.	$8.89
1937	All	Chrome Plated	161 A 4064	18 lbs.	8.95

For Ford $5.25 and up

Make and Year	Molding	Finish	Art. No.	Ship. wt	Price
FORD 1938 Standard	None	Black	461A4821	8 lbs.	$5.25
1938 DeLuxe	None	Black	461A4070	9 lbs.	5.45
1939 Standard	None	Black	461A4806	8 lbs.	5.25
1939 DeLuxe	All	Chrome Plated	461A4820	12 lbs.	11.45
1940 DeLuxe	None	Polished	461A4807	5 lbs.	9.75
CHEV. 1934-35 Std.	None	(Aluminum)	461A4818	8 lbs.	3.79
1935 Master	None	(Lacquer)	461A4815	8 lbs.	3.75
1936	None	Chrome Plated	461A4065	13 lbs.	4.79
1937	Center	Chrome Plated	461A4066	12 lbs.	4.79
1937 Trk ½-1½	Center	Chrome Plated	461A4096	14 lbs.	5.98
1938	None	Chrome Plated	461A4071	8 lbs.	5.49
1939	None	Chrome Plated	461A4801	10 lbs.	5.45
PLYMOUTH 1935	None	Black	461A4095	12 lbs.	5.45
1936	None	Chrome Plated	461A4067	9 lbs.	5.69
1937	None	Chrome Plated	461A4068	12 lbs.	5.69
1938	None	Chrome Plated	461A4069	8 lbs.	5.69



Ⓐ Oil-Eye Gauge

Tests oil while driving or standing still. Push dash button and it sucks up an actual sample of oil at a point above the safe minimum crankcase level. If the oil is not above this point the **Oil-Eye** won't show oil—warns you to add oil. Gauge is electrically illuminated and shows clear or dirty condition of oil. With instructions. Ship. wt. 2 lbs.

61 A 3670—For Ford V-8, 85 H.P. 1935-41; Mercury 1939-41. Each $2.98
61 A 3671—For Chev. 1937-41. Each 2.98
61 A 3672—For Plymouth, Dodge 1937-41 2.98

Ⓑ Motor Efficiency Gauge

Stop unnecessary gas waste now! Gauge shows Low, Medium or Good Gasoline mileage reading all the time! Enables you to drive economically —shows up faulty ignition, carburetor, leaky valves, rings, etc.

Fits to windshield wiper tubing or intake manifold. No drilling necessary for cars with vacuum type wiper motor. Same principle as service station vacuum analyzers. Steel brackets for mounting on steering post or windshield frame. Complete with instructions. For all cars. **61 A 3666**—Ship. wt. 13 oz. $1.49

Ⓒ Gasoline Mileage Gauge

Just watch the needle—it shows you actual miles per gallon at any speed. Shows you the speed at which your car operates most economically. A drop in gas mileage warns car needs attention. Soon pays for itself in the gas it helps you save. 1¾-in. dial; diam. 2⅛ in. Instructions, fittings.

61 A 3664—Ship. wt. 15 oz. $2.89

Accurate Motor Gauges

Ⓓ **Oil Pressure Gauges.** Have unbreakable lenses. With instructions. Ship. wt. 12 oz.

61 A 3574—For Fords A-AA, 1928-31 ..... 89c
61 A 3577—For other cars 89c

Ⓔ **Heat Indicator.** Clamps on dash or fits in 2⅛-in. hole. Unbreakable lens. Instructions.

61 A 3579—Wt. 1 lb. 4 oz. ... $1.39

Combination Heat-Oil Gauge for all cars except Ford A-AA (Not pictured.) Unbreakable lens. Instructions.

61 A 3578—Wt. 1 lb. 14 oz. .. $2.35

Auto Compass

Ⓕ Tells your direction of travel. Keeps you from making wrong turns. Glossy brown bakelite case. Scientific liquid type, similar to airplane compass. Dial rotates on genuine sapphire jewel pivot. Built-in compensators. Screw-on bracket and suction cup. With fittings for mounting on windshield or on windshield divider strip. Instructions.

61 A 3959—*Postpaid* $2.49

Ⓖ **Suction Cup Thermometer.** Registers 30° below to 120° above. 2-in. translucent dial. Chrome plated trim. Mounts inside.

61 A 3623—Ship. wt. 4 oz. 45c

(H–J–K) Radiator Caps

Replace original exposed radiator caps. Heavily chrome plated. **State make, year, and model of car.** Wt. 7 to 10 oz.

61 A 3375—For Ford 1928–34 only 16c
61 A 3376—For Chev. 1928–34 only 16c

Under Hood Cap

Ⓜ Lug type. Brass-rustproof. Special water tight gasket eliminates splashing out. **State make, year of car.**

61 A 3377—Ship. wt. 3 oz. 12c

Gas Tank Caps

Chrome plated. For bayonet type openings. (Not for 1928-29 Ford A). **State Make, Year of Car.**

Ⓡ **61 A 3680—Hinge Type DeLuxe Gas Cap.** Impossible to lose or misplace because it is permanently attached. Prevents gasoline theft. Spins when locked to prevent forcing of lock. Chrome plated—heavy die casting. Self-locking cover, 3½-in. diam. Attaches to filler tube by screws and clamp! With instructions and 2 keys. Ship. wt. 1 lb. 89c

Ⓝ **61 A 3642—Locking "Spinning" Type Gas Cap.** Cannot be forced. Chrome plated. Weatherproof key hole cover. With 2 keys. 3½-in. diam. Ship. wt. 12 ounces. 59c

Ⓟ **61 A 3330—Locking "Non-Spinning" Cap.** 2 keys. Ship. wt. 12 oz. 33c

Ⓛ **61 A 3980—Non-locking Cap.** Stainless steel. Like original equipment. 3-in. diam. Ship. wt. 6 oz. 16c

Exhaust Extensions

Ⓢ **Wards Economy Extension.** Gleaming chrome plated with red jewel—adds beauty to your car. Protects paint and bumper from exhaust fumes. Fit all cars. 7¼ in. long. Wt. 11 oz.

61 A 4017 ..... 21c

Wards DeLuxe Air-Cooled Type. Improved double deflector type. Inner deflector directs hot corrosive exhaust gases downward before they reach the chrome plated surface, plating won't discolor. Outer shell triple plated. Fit all cars. Ship. wt. 1 lb. 4 oz.

Ⓣ **61 A 4023**—8 in. long. Large red oval jewel 49c

Ⓥ **61 A 4024**—9½ in. long. 3 red jewels 79c

Ⓤ **Air-Cooled Exhaust Extension**—Chrome plated outer shell with red jewel; baked enamel on inner deflector. Asbestos cushion between outer and inner layer protects gleaming finish. 8½ in. long. Wt. 1 lb. 4 oz.

61 A 4038 ..... 59c

Ⓦ **61 A 3743—Inside Door Opener.** Chrome plated. For Ford V-8, Plym., Chrys., Dodge, Willys, Hudson, 1929–41. Ship. wt. 6 oz. Each 25c
61 A 3730—For Chev., Buick, Olds., Pontiac, 1933–38 (except 1935 Chev. and Pontiac). Wt. 1 lb. 35c

Ⓧ **61 A 3744—Window Crank.** Chrome plated. Fits Fords V-8, Plym., Chrys., Dodge, Hudson, DeSoto, Nash, Lafayette and Willys, 1928–41. Wt. 6 oz. 27c
61 A 3731—For Chev., Buick, Olds., Pontiac 1933–38. Ship. wt. 1 lb. Each 39c

Locking Handles for Rumble Seat or Rear Compartment

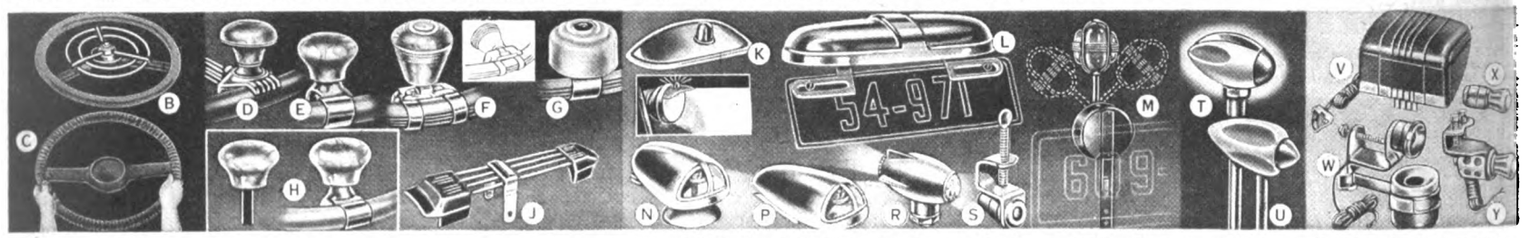
Ⓨ **61 A 3728**—For Ford 1928–37. 2 keys. Wt. 1 lb. .98c
61 A 3726—For Buick, Olds., Pontiac 1937, Chev. 1937–38. With 2 keys. Ship. wt. 1 lb. $1.19

Ⓩ **61 A 3729**—For Chrys., Plym., Dodge, DeSoto, 1928–36 (Except 1935 Plym. Coupe) 2 keys. Wt. 1 lb. $1.19

Ⓐ **Locking Door Handles.** Stainless Steel Shell. 2 keys. 61 A 3725 is not spinning type. *Not for Victoria DeLuxe.

Only For Closed Cars	Wt., 1 lb.	Each
Buick 1934 36	61 A 3702	98c
1937-38 (Die cast)	61 A 3725	$1.29
Chev. 1928-30	61 A 3703	93c
1931-32	61 A 3704	98c
1933	61 A 3705	98c
1934-36	61 A 3702	98c
1937-38 (Die cast)	61 A 3725	$1.29
Ford A, 1928-29	61 A 3715	98c
*1930-31	61 A 3716	97c
Olds., 1934-36	61 A 3702	98c
1937-38 (Die cast)	61 A 3725	$1.29
Pontiac, 1933	61 A 3705	98c
1934-36	61 A 3702	98c
1937-38 (Die cast)	61 A 3725	$1.29

For most other 1928-38 closed cars. Shipped from Chicago Factory in 4 days. State make, year, model; body style; which door. Wt. 1 lb.
M261 A 3721—Non-Locking ... 89c
M261 A 3720—Locking ... $1.29



3-Spoke Horn Rings

Heavily chrome plated. Instructions included.

Ⓑ **61 A 4001—Double Ring** with Banjo-type spokes. Plastic horn button. Wt. 1 lb. 4 oz. **$1.29**
61 A 4002—Single Ring. (Not shown). Wt. 1 lb. 2 oz. 79c

Ⓒ **Steering Wheel Covers Mohair Cover.** Taupe color. Rubberized back.

61 A 3948—Wt. 4 oz. 19c

Grooved Mohair Cover Taupe colored mohair vulcanized to molded rubber. Fits wheels snugly, prevents slipping.

61 A 3981—Wt. 1 lb. .89c

Steering Wheel Spinners

Make Turning and Parking Easy. Lets you spin steering wheel freely with one hand.

Ⓓ **61 A 3978—Onyx color, Plastic knob.** Enameled die cast base. Mounts at spoke. Wt. 3 oz. 17c

Ⓔ **61 A 3991—Spinner only from 61 A 3970 set below.** Ship. wt. 6 oz. 37c

Ⓕ **61 A 3962—"Foldown" Spinner.** Folds down out of way when not in use permitting wheel to slip through fingers freely. Chrome plated die cast base. Stainless steel bands. Onyx color Marblette knob. Wt. 11 oz. 79c

Ⓖ **61 A 3984—New "LoBoy" Spinner.** Hugs the wheel, won't catch your sleeve. Stainless steel band. Mottled ivory plastic knob. Ship. wt. 4 oz. 45c

Ⓗ **61 A 3970—Matched Set—Spinner and Gear Shift Ball** for floor lever. Onyx color, marblette knobs. Chrome plated base, stainless steel band. Wt. 14 oz. .63c

Ⓙ **61 A 3969—Chrome Plated Spokes.** Clamps on any 3-spoke wheel. Black rubber ends. (Cannot be used with 61 A 4002 horn ring). Ship. wt. 12 oz. Set of 3 .. 89c

Ⓚ **61 A 6615—Headlight Visor**—Jewels show if lights are on. (Not for sealed beam). Wt. 4 oz. Pair. 39c

Ⓛ **61 A 6727—Illuminated License Mount**—Chrome plated die casting. Drill three ¼ in. holes, 10 by 2½ in. With bulbs, gaskets and instructions. Wt. 1 lb. 2 oz. **$1.85**

Ⓢ **61 A 6912—Light Indicator**—Glows red when lights are bright. Clamps to dash. With wire. Wt. 4 oz. . 49c

Handy Service Lights—Light up when you open doors. Chrome plated. With 1½-C.P. bulb, wire, instructions.

Ⓝ **61 A 6717—For Glove Compartment.** Suction cups hold it. Lights when compartment door is opened. With bulb, instructions. Ship. wt. 8 ounces. 55c

Ⓟ **61 A 6716—For Trunk Compartment**—Easy-to-install clip. No holes to drill. Lights when compartment door is opened. With bulb, instructions. Ship. wt. 8 oz. 55c

Ⓡ **Torpedo Parking Light**—Chrome plated die casting. Same bulb illuminates front and rear of light to avoid use of head and tail lamp when parked. Mounts on fender, body panel or side tail lamp. 1 hole to drill.

61 A 3910—With bulb, instructions. Ship. wt. 5 oz. ... 55c

Ⓜ **Wig Wag Stop Light.** Lights up and swings back and forth when foot brakes are applied. Mounts on license plate bracket. Connects to stop light wire. Chrome plated bezel. Bulb, wire, instructions included.

61 A 6797—Wt. 12 oz. . $1.79

Fender Guides

Chrome plated adjustable posts. No drilling. Instructions. Ship. wt. each 12 oz.

Ⓣ **Illuminated Model.** Yellow body, chrome plated trim, black face. With bulb. Switch not included.

61 A 3903—Ea. 87c; 2 for $1.69

Ⓤ **Non-Illuminated Model.** Yellow body. Black tip.

61 A 3900—Ea. 65c; 2 for $1.25

Ⓦ **Combination Push-In Lighter and Ash Tray.** Black bakelite head.

61 A 3760—With wire. Wt. 9 oz. 33c

Ⓥ **Press-a-lite Automatic Cigarette Case and Lighter.** Hands you an uncrushed, lighted cigarette while driving. Holds 23 standard length cigarettes. Black bakelite case. Chrome plated trim. Clamps to steering post on all cars. One wire to hook up. Wt. 12 oz.

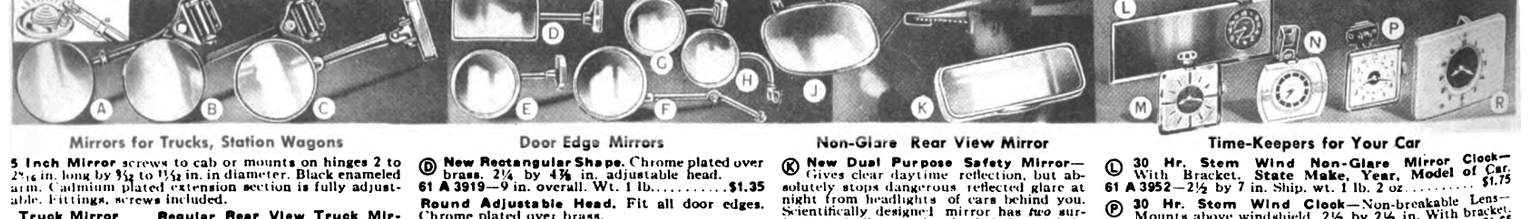
61 A 3761—Case Complete $2.95

Ⓨ **Cigarette Lighter Unit**—Push type. "Pops Out" when hot. Clamps on dash. Onyx head.

61 A 3762—Complete. Ship. wt. 3 oz. $1.10

Ⓧ **Automatic "Pop Out" Lighter.** Replacement for standard sockets in all cars.

61 A 3763—Wt. 3 oz. 63c



Mirrors for Trucks, Station Wagons

5 Inch Mirror screws to cab or mounts on hinges 2 to 2⅜ in. long by 3½ to 13½ in. in diameter. Black enameled arm. Cadmium plated extension section is fully adjustable. Fittings, screws included.

Truck Mirror With Light

Ⓐ With built-in amber clearance light on back. Adjustable from 18 in. to 30 in. overall. With wire.

No switch.

61 A 3925—Wt. 2 lbs. 4 oz. .. $1.59

Regular Rear View Truck Mirrors. Telescopes from 19 to 29 in. (A) **61 A 3923**—Wt. 2 lbs. $1.15

Ⓑ **61 A 3920**—With channel steel arm. Head adjusts from 15 to 18 in. Ship. wt. 1 lb. 8 oz. 75c

Ⓒ **61 A 3914**—DeLuxe—for Station Wagons, Trucks, or Cars pulling trailer. Chrome plated—clamps to door edge. Adjustable from 10¾ in. to 15 in. 4½-in. head. Wt. 1 lb. 8 oz. $1.98

61 A 3924—Replacement Mirror Head. Ball and socket type. Ship. wt. 12 oz. 33c

Door Edge Mirrors

Ⓓ **New Rectangular Shape.** Chrome plated over brass. 2¼ by 4⅜ in. adjustable head.

61 A 3919—9 in. overall. Wt. 1 lb. $1.35

Round Adjustable Head. Fit all door edges. Chrome plated over brass.

Ⓔ **61 A 3998**—4-in. mirror. Length 9¾ in. Ship. wt. 14 oz. 95c

Ⓖ **61 A 3997**—3-in. mirror. Overall length 6¾ in. Ship. wt. 8 oz. 55c

Ⓕ **4-In. Door Hinge Non-Glare Mirror.** For 1932-40 cars with exposed door hinges at front. Adjustable from 7 in. to 13 in.

61 A 3985—Ship. wt. 1 lb $1.33

Ⓗ **3-In. Rain Channel Mirror.** Chrome plated. Adjustable head. For left side of all General Motors cars 1935–40, and 1939–40 Packard.

61 A 7015 ... wt. 8 oz. 79c

Non-Glare Rear View Mirror

Ⓚ **New Dual Purpose Safety Mirror**—Gives clear daytime reflection, but absolutely stops dangerous reflected glare at night from headlights of cars behind you. Scientifically designed mirror has *two* surfaces, *optically ground and polished at a definite angle to each other.* Pull lever for night driving and mirror shoots reflected rays upward, *above* your head, rather than into your eyes. Rear view is not obstructed. Helps make night driving a pleasure. Fits 1936 and later cars, except Zephyrs and Terraplanes, 1936 Plymouth and Studebaker, 1938-39 Packards, 1939 Dodge, and 1941 Graham. **State Make, Year, Model.**

61 A 7036—Ship. wt. 1 lb. $2.49

Ⓙ **Vanity Mirror**—Clips on Sun Visor

61 A 7009—4 by 6 in. Wt. 10 oz. 24c

Time-Keepers for Your Car

Ⓛ **30 Hr. Stem Wind Non-Glare Mirror Clock**—With Bracket. **State Make, Year, Model of Car.**

61 A 3952—2½ by 7 in. Ship. wt. 1 lb. 2 oz. $1.75

Ⓟ **30 Hr. Stem Wind Clock**—Non-breakable Lens—Mounts above windshield. 2½ by 2½ in. With bracket.

61 A 3950—Ship. wt. 9 oz. $1.65

Ⓝ **30 Hr. Pull Wind Clock**—Beveled edge glass, gold and ivory trim, with black hands and hour markings. Mounts on windshield divider strip or above windshield.

61 A 3982—2½ x 3 in. Instructions. Wt. 12 oz. $2.69

Ⓜ **6-Jewel—8 Day Clock**—Champagne color mirror glass. Enameled hands. 2½ by 2½ in. Tilting bracket mounts on header bar or windshield strip.

61 A 3957—Instructions. Ship. wt. 14 oz. $3.95

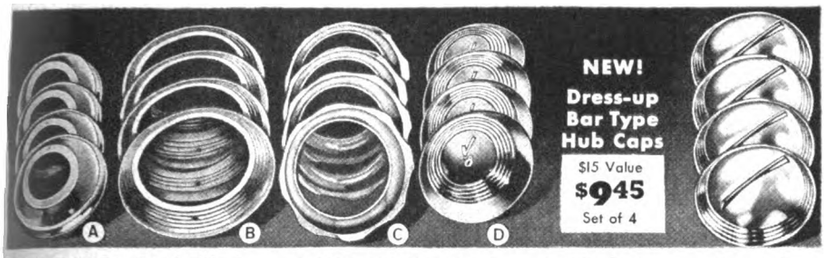
Ⓡ **30-Hr. Glove Compartment Clock**—Natural Walnut or ivory finish. **State color.** Gold colored numerals and hands. 4½ by 3¾ in. Fits 2½ in. hole.

61 A 3963—Ship. wt. 14 oz. Instructions. $2.95

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Time Payment Order

See Inside Back Cover for Details



NEW! Dress-up Bar Type Hub Caps

$15 Value

$9.45 Set of 4

Chrome Plated Disc Trim for Wheels

Add extra Flash and DeLuxe appearance to your car. Disc fits around hub caps. Covers most of wheel giving it a streamlined appearance. Easy to install. Av. wt. set 6 lbs. 2 oz. Fits only cars listed below.

(A) **61 A 8320**—For wire wheels on Chevrolet 1930–32; 1933 Master, Ford 1932–33; Pontiac 6, 1932, 8, 1933. Set of 4. **$2.89**

(A) **61 A 8321**—For wire wheels, Chevrolet 1934–36 Master, Pontiac 8, 1934. Set of 4. **$2.89**

(B) **561 A 8330**—For Ford V-8, 85 H.P. 1936–39; Lincoln-Zephyr 1936–38; Mercury 1939. Set of 4. **$5.45**

Full Chrome Plated Hub Caps

(D) **Set of 4**—Give your Ford or Mercury snappy, up-to-date appearance. New full-rounded design. Full chrome plated, edge to edge. Order with a set of wheel trim discs at left for complete wheel coverage. One-piece heavy stamped steel. Chrome plated over nickel over copper—resists rust, tarnish Fits 1936 39 Fords and 1939 Mercury. Ship. wt. 10 lbs. 8 oz.
61 A 8346—Set of 4. **$4.15**

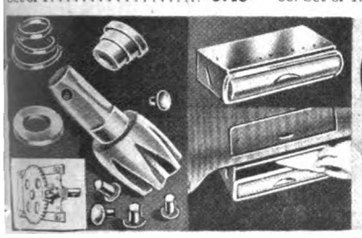
Chrome Plated Disc Trim for Chev.

(C) Disc fits around hub cap. Covers most of wheel. Easy to install. No drilling. Ship. wt. 6 lbs.
61 A 8329—For Chev. 1937–38. Set of 4. **$3.79**

Doll Up Hub Caps—Chrome Plated

Replace your scratched hub caps. Give your car that custom built appearance with Wards *bar-type* hub caps. They cover practically the entire wheel, add snap and streamline appearance to your car. Shell made of 1 piece heavy stamped steel. Heavily chrome plated to resist tarnish and rust. Wt. set 15 lbs.

61 A 8324—For Ford V-8, 1936–39; Mercury 1939; Lincoln-Zephyr, 1936–1938. Set of 4. **$9.45**
61 A 8325—For Ford V-8, 1940–41. Set of 4. **$9.45**
61 A 8326—For Chevrolet, 1937–41, Packard 6 and 8, 1937–40; Oldsmobile 1937–38. Set of 4. **$7.95**
61 A 8328—For Plymouth, Dodge, 1937–41, Nash 1939–40. Set of 4. **$9.45**





Perfect Fit Hub Caps

Window-Opener Repair Kit

Quick repair for broken window-opener mechanisms. Replaces old parts perfectly—makes your windows open or close smoothly. Contains one-piece hardened steel pinion, washer, spring, rivets, instructions. For Ford V-8, Plymouth, Chrysler, Dodge, DeSoto 1932–40. When ordering, **State make, year, model car.** Wt. 4 oz.
61A3745—Set. **59c**

Kleenex "Auto-Serv"

Needed in every car. Use in place of handkerchiefs or rags. Use to wipe windshield, clean steering wheel, check oil and other cases where rags are needed. Handy to have—economical to use. Consists of Kleenex Container and one 1.8c box of Kleenex Tissues. Container is stamped steel with chrome plated face. Size 10¾ by 2⅞ by 5¼ in. Bolts under bottom of glove compartment—conveniently located. Holds 200-sheet box of Kleenex. For extra Kleenex See Index. Ship. wt. complete 2 lbs.
61 A 3966—Complete kit. **89c**

New Hub Caps Make Old Wheels Look New. Save 25% to 50% at Wards

9c Each And Up

Listings marked (*) also fit disc wheels. Av. ship. wt. each 3 lbs. *Fits Only Make, Year and Models Listed Below in Table.*

Make, Year, Model	Wheels	Article No.	Each	Two for
Ford 1909–27 T	Wood	61 A 8306	9c	17c
1928–29 A	Wire	61 A 8319	9c	17c
1930–31 A	Wire	61 A 8322	10c	18c
1932–33 V-8	Wire	61 A 8323	29c	55c
1934 V-8	Wire	61 A 8310	28c	53c
1935 V-8	Wire	61 A 8316	29c	55c
1936–37 V-8	Steel	61 A 8327	$1.10	$2.15
1936 Black Trim	Steel	61 A 8336	87c	1.65
1937 Black Trim	Steel	61 A 8338	89c	1.69
1938 Std. Black Trim	Steel	61 A 8342	87c	1.65
1939 Std. Black Trim	Steel	61 A 8344	93c	1.79
1938 DeLuxe Black Trim	Steel	61 A 8343	89c	1.69
1939 DeLuxe Black Trim	Steel	61 A 8345	93c	1.79
1940 Std.	Steel	61 A 8347	65c	1.25
1940 DeLuxe	Steel	61 A 8348	62c	1.19
Chevrolet 1925–28	*Wood	61 A 8303	9c	17c
1929–30 All	*Wood	61 A 8304	16c	29c
1930–32 All	Wire	61 A 8305	28c	53c
1933 Master	Wire	61 A 8308	29c	55c
1934 Master	Wire	61 A 8309	48c	93c
1934–35 Standard	Wire	61 A 8301	45c	85c
1935–36 Master	Wire	61 A 8315	44c	84c
1935–36 Master	Steel	61 A 8318	44c	84c
1936 Standard	Steel	61 A 8302	29c	55c
1937–38 All	Steel	61 A 8333	48c	91c
1939 All	Steel	61 A 8334	49c	93c
1940 All	Steel	61 A 8349	62c	$1.19
Plymouth 1932–33 PB, PC, PD	Wire	61 A 8311	33c	63c
1935–36 All	Steel	61 A 8317	44c	83c
1937–38 All	Steel	61 A 8341	49c	93c
1939–40	Steel	61 A 8340	59c	$1.13

USE WARDS TIME PAYMENT PLAN

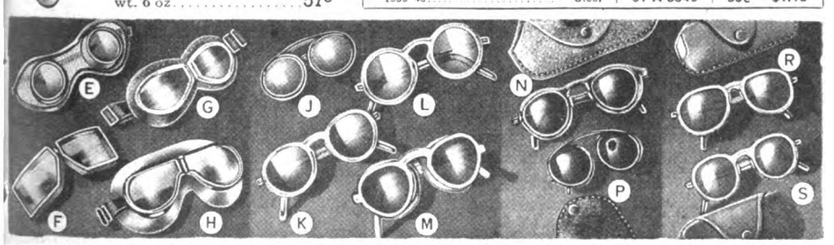
Modernize your car with new accessories—increase its value See Inside Back Cover.

Door Pillar Locks



61 A 3719—For Fords 1932–41. Ship. wt. 6 oz. **47c**

61 A 3723—For Chrysler, Plym., Dodge, DeSoto 1935–41; Studebaker 1936–41. Ship. wt. 6 oz. **57c**



All-Purpose Goggles

Wide vision type for farm use, motor-cycling, auto racing, aviation.

(F) Clear or amber glass lenses; leather nose bridge; sponge rubber padded frames. Ship. wt. 7 oz.
61 A 9694—State color lens.. 65c

(G) Shatter-resisting laminated clear glass lenses. Polished aluminum frame. Edges bound in chenille. Adjustable head band.
61 A 9684—Wt. 6 oz. Pair.... **$1.49**

(H) Shatter-resisting laminated clear glass lenses. Formed and molded mask of sponge rubber. Aluminum frames. Adjustable.
61 A 9685—Wt. 6 oz. Pair.. **$2.95**

(E) **Harvester Goggles.** Clear glass. Lenses in 1⅞ in. eye cups; brass wire mesh with bound edges.
61 A 9693—Wt. 4 oz. Pair.... **23c**

Sun Glasses Protect Eyes

State color of lens, frame on all glasses. Wt. 4 oz.

(M) **61 A 9569**—Smoke lenses—white or black frame. Side shields removable.. **19c**

(K) **61 A 9585**—Optical ground, polished lenses in smoke, blue. Flesh pearl-like frames. Drop eye type. 5-bar metal hinges, wire inner core temple pieces. Pair. **98c**

(J) **61 A 9587**—Fits over regular glasses. Optical ground, polished lenses in smoke or blue. Metal frames. Drop eye. **State color.** Pr. **49c**

(L) **61 A 9580**—Lenses ground and polished. Optical metal hinge. Smoke or blue. Frame flesh color. Pr. **49c**

Polaroid Glasses

Eliminates reflected glare entirely. Eye strain relief that can't be duplicated with ordinary sun glasses. Not recommended for night driving. Demi-amber or pink crystal frames—**state color.** Green lenses. Synthetic leather case. *Postpaid.*

(N) **61 A 9598**.. **$1.95**

(P) **Hook-on type.** Light weight metal frame with case. Fits over regular glasses. *Postpaid.*
61 A 9599..... **$1.95**

Willsonite Sun Glasses—Postpaid

Meet U.S. and transcontinental air line standards. Green lenses eliminate 97% of infra-red rays—block harmful ultra-violet rays. Ground, polished to optical standards—eliminate glare. Zylonite plastic frames—flesh or demi-amber. **State color.** Cowhide case.

(S) **61 A 9576**—Conventional frame..... **$2.79**

(R) **61 A 9575**—Sport Frame..... **$3.75**



Inside Sun-Visors

(U) **Leather-like** brown finish. Size 15 by 6 in.
61 A 7026—Wt. 1 lb. **45c**

Grayish-brown cloth. Size 15 by 5¾ in.—special bracket. Fits mounting plates above windshield (right or left side) on all 1934–38 Chrysler, Gen. Motor, Ford Cars.
61 A 3698—Wt. 1 lb. 7 oz..... **57c**

(T) **Smoke Colored.** Glare Shield, 4 by 10 in. Clips to Visor, Adjustable. Eliminates light glare. Covers rear view mirror reflection.
61 A 7033—Wt. 7 oz. **47c**

Handy Auto Seat Cushions

(V) **Combination Cushion**—Dark Leatherette. Beaded edges. A comfort aid to pleasure in driving. Filled with air conditioned sponge rubber blended with shredded clippings. Snaps on either side. Make up combination of two or more. (See small pictures above.) 16 by 16 in. Wt. 2 lbs. 8 oz.
61 A 4047—Each.. $1.25; 2 for $2.39; 3 for.. $3.59

(Y) **Wedge Cushion**—Retains shape. Filled with sponge rubber, blended with shredded clippings. Contrasting dark leather-like material with beaded binding. Size 15 by 15 in.
61 A 4046—Wt. 2 lbs. 8 oz. **Ea. 98c; 2 for..... $1.89**

(X) **Cool Fiber** with leather-like gusset. Colorful binding. Size 14½ by 14½ in. Wt. 2 lbs. 8 oz.
61 A 4045—Each..... 65c; 2 for..... $1.25

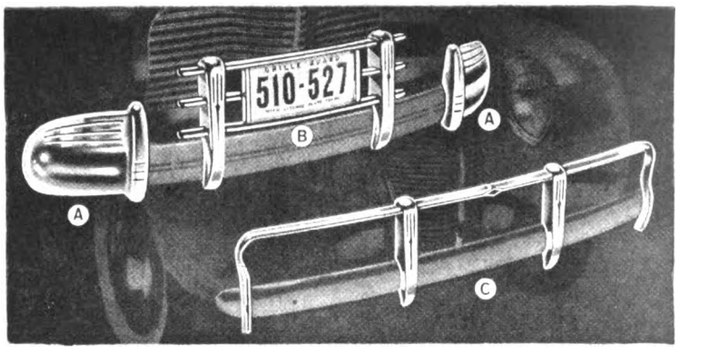
(W) **Air Filled Cushion.** Rubber. 12 by 16 in. Wt. 13 oz.
61 A 4667—Each..... 31c; 2 for..... 58c

(Z) **Back-Health Cushions.** Designed and approved by Doctors. Shaped to fit your back. Fiber front side, reverse side is leather-like. Size 15½ by 17 in. Ship. wt. 3 lbs.
61 A 4043—Each..... **$1.29; 2 for..... $2.49**

Car Clothes Bag

Protect your suits while you travel. Hang them up in this clothes bag and keep them clean and neat. Bag has full length zipper. Made of light tan rubberized bishop cloth—moisture and dust proof.

One hanger included with special bar to keep trousers from slipping. Handy handles at top and bottom of bag, for easy carrying. Bag 22½ by 35 in. overall. Ship. wt. 2 lbs. 8 oz.
61 A 4049..... **$1.98**



Bumper-End Wing Guards $3.98

(A) **Bumper-End Wing Guards.** Added protection for headlights, fenders and tail lights. A beautiful streamlined guard of massive strength. Brings new car beauty and safety to older models. Easily installed over end of bumper—no holes to drill. Heavy gauge ⅛-in. steel. Overall dimensions 10½ in. high and 12¾ in. wide. Triple rustproof plating of chromium on nickel on copper. Fits Chevrolet, Nash and Mercury 1938 to 1941; Pontiac, Dodge 1937 to 1940; Plymouth, DeSoto 1937 to 1941; Olds. 1937 to 1939; Buick, LaSalle, Chrys. 1938 to 1940; Ford, Packard 110, 1937 to 1941. Ship. wt. 8 lbs. Instructions included.
61 A 4054—Pair..... **$3.98**

New Center Grille Guard $4.49

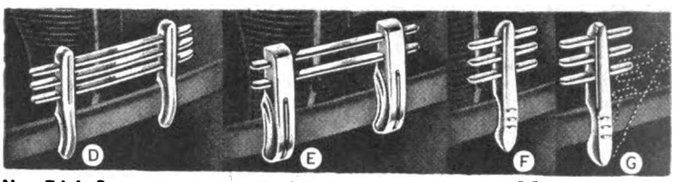
(B) **New Center Grille Guard.** Modernize your car—protect your expensive grille. It is in keeping with latest automobile design, with built-in license plate holder that is adjustable. Posts 13 in. high overall, cross bars 27 in. Chrome plated finish. Bolts, nuts and instructions included. Fits most 1938–40 cars as well as several 1941 models including Mercury, Ford DeLuxe, and Plymouth. *See How to Order at right.*
61 A 4861—Ship. wt. 8 lbs..... **$4.49**

Heavy Duty—Complete Front End Protector $4.98

(C) Full protection for radiator grille, fenders, lights. Heavy pressed channel steel in new flat cross-bar design. No appearance of bulkiness—gives car deluxe appearance. Triple-plated—rustproof, tarnishproof. Center section and uprights adjustable to fit most cars. Size 13 in. high overall; cross bars extend 6 inches above bumper and are ½ in. by 1¼ in. Red lacquer trim.
461 A 4072—Ship. wt. 12 lbs..... **$4.98**

HOW TO ORDER

Wards Grille Guards and Front Protectors fit most cars with 4 to 5⅜ in. wide bumpers except those with extreme curvature such as Studebaker, Lincoln Zephyr, 1941 General Motors, 1941 Ford Super-Deluxe Models, and those with irregular bumper surfaces. For 1940–41 Hudson, Front or Rear order 61 A 4859 only.



New Triple Bar Grille Guard $2.79

(D) Made of heavy pressed steel. Rustproof triple plated—chrome plating over nickel and copper. Red lacquer trim on uprights. Cadmium plated clamps. 22-in. channel steel crossbars. Uprights extend 7⅛ in. above bumper; overall height 13½ in. Instructions included. Ship. wt. 7 lbs. 12 oz.
561 A 4862—Each..... **$2.79**

Dual-Bar Grille Guard $1.98

(E) Sturdy protection. Made of pressed steel. Two 20½-in. channel steel cross bars and two 12-in. uprights. Chrome plated finish; red enamel trim. Uprights extend 7⅛ in. above bumper. It is adjustable to various widths. All U bolts and nuts are rust-proof cadmium plated. Ship. wt. 8 lbs.
61 A 4860—Each..... **$1.98**

$1.49 $1.89

Fender Guard

(F) Use on each end of bumper. Chrome plated rust resisting finish. Overall height 13 in. Ship. wt. 3 lbs
61 A 4857—Each..... **$1.49**

Trunk Guard

(G) Matches fender guard above but is hinged to drop down for opening trunk. Easy to work. Overall height 13 in. Ship. wt. 3 lbs. 12 oz.
61 A 4859—Each..... **$1.89**



Rubber Pedal Pads

State make, year, model. Wt. 1 lb. 2 oz.

(J) 1928–34 Chrys., 1929–39 Buick, Chev., Ford, Olds. Pontiac, Stude. Pair..... **15c**

(K) **61A4004—Clamp-on Type.** For all cars. Pair..... **47c**

(H) **61 A 950—Accelerator Pedal.** For all cars. Wt. 1 lb. Ea. **39c**

Save Your Brake

This handy reminder whistles when emergency is on and motor running. Air for whistle is supplied by tapping hose to windshield wiper tubing. Can only be used on pistol grip type emergencies located on left side of car. Fits all cars but Hudson. Easy to install. Instructions. Ship. wt. 5 oz.
61 A 6730..... **65c**

Fender Protector

Prevents fender scratches. Clamps on. Chrome plated brass shell, 8 by 2¼ in. **State Make, Year, Front, Rear.** Ship. wt. pr. 2 lbs. 4 oz.
61A3921
2 Pair... **$2.48**
1 Pair..... **1.29**

Bumper Stop—Grille Guard

Low in price, yet a practical grille guard. 14-in. high. Chrome plated. Read notes under 461A4072 above. Shipping weight 3 lbs.
61A 4074
Each..... **69c**



Car Initials

For hood or radiator grille. Height 2⅛ inches, Mirror polish finish—bright red lacquer edges. Easily installed with special nut included. Ship. wt. 2 oz. each. **Be sure to state Initials wanted.** Include in Terms Order.
61 A 4016—
Each..... **29c**
Three for..... **79c**

Flashy Trim

(M) **V-8 Ornament** Chrome plated. With nuts, bolts, 8 in. long. Wt. 5 oz.
61 A 3968... **24c**
2 for..... **45c**

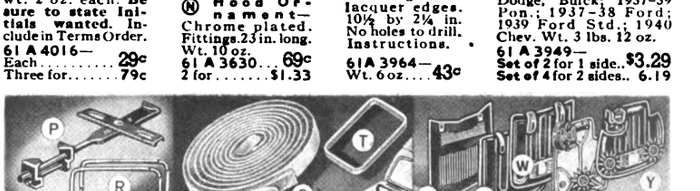
(N) **Hood Ornament**—Chrome plated. Fittings 2.3 in. long. Wt. 10 oz.
61 A 3630... **69c**
2 for..... **$1.33**

Hood Ornament

Make your friends think your car is "Super-Charged." Polished Alloy Casting. Red lacquer edges. 10½ by 2¼ in. No holes to drill. Instructions.
61A 3964—
Wt. 6 oz.... **43c**

Super-Charger Trim

Flexible spiral tubing, chrome plated. Fits from hood to fenders—won't rattle. Only 4 holes to drill. With instructions. Fits 1938–40 Nash; 1938–39 DeSoto, Plym., Dodge, Buick; 1937–39 Pon.; 1937–38 Ford; 1939 Ford Std.; 1940 Chev. Wt. 3 lbs. 12 oz.
61 A 3949—
Set of 2 for 1 side.. **$3.29**
Set of 4 for 2 sides.. **6.19**



License Bracket

(P) Clamps on bumper or bracket. Steel—black enameled—adjustable. Wt. 1 lb. 8 oz.
61 A 3960... **29c**

License Frame

(R) Chrome plated brass. Rustproof. Adjusts to 14 by 6¼ in. Wt. 1 lb. 2 oz.
61 A 3644—
Pair..... **65c**

Sponge Rubber Sealing Strip

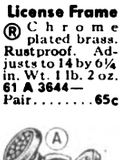
(S) Sticks to metal, wood, glass, cloth. 10-ft. package.
61 A 1728—⅜ by 3/32 in. thick. Ship. wt. 6 oz..... **16c**
61 A 1729—⅜ by 3/16 in. thick. Ship. wt. 8 oz..... **21c**
61 A 1730—⅜ by 3/16 in. thick. Ship. wt. 10 oz..... **29c**
61 A 1731—¾ by 3/16 in. thick. Ship. wt. 12 oz..... **39c**

Gasket for Cowl Ventilator
(T) **61 A 930**—Soft sponge rubber. Wt. 6 oz..... **16c**

Reflector License Bolts

Single Jewel Type. Wt. 2 oz.
(A) **61 A 4040**—Red. 4 for.. **10c**
Each..... **3c**
61 A 4041—Amber. 4 for.... **10c**
Each..... **3c**

3-Jewel Type Chrome plated. Ship. wt. 2 oz.
(B) **61 A 4052**—Red. 4 for.... **17c**
Each..... **5c**
61 A 4053—Amber. 4 for.... **17c**
Each..... **5c**



Attractive Fender Flaps

Snap-on steel clamps, molded in rubber.

For All 1925–36 Cars.
(V) **61A1036**—Plain ribbed design. Ship. wt. 1 lb. 14 oz. Pair..... **43c**
(W) **61 A 1038**—Chrome plated center. Red jewel. Wt. 2 lbs. 10 oz. Pair **73c**
(U) **61 A 1044**—Light weight rubber. Metal clips. 9¼ in. Wt. 1 lb. 4 oz. Pair..... **19c**

For 1937–41 Cars, Front or Rear.
(X) **61 A 1033**—Chrome plated ornament with red jewel. Molded white rubber. Ship. wt. 2 lbs. 12 oz. Pair.. **98c**
(Y) **61 A 1034**—Chrome plated center ornament, two Red jewels. Molded blk. rubber. Wt. 2 lbs. 12 oz. Pair.. **98c**

Hood Catches



61 A 5522—Chrome plated. For Chev. 1930–31. Wt. 8 oz. Each. **35c**
61 A 3259—Black. For Ford A-AA, 1928–31. Wt. 5 oz..... **15c**

CB As WARDS 971

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WARDS AUTO TOPS FOR OPEN CARS



$2.59 and up Roadster — **$4.39** and up Touring Car

Made of strong black cotton drill covered with a heavy black rubber coating. 32 oz. wt. All seams lock-stitched. Finished with glossy black varnish. Consist of top, rear curtains with 6 by 18-inch window, tacks, trimmings, fasteners, instructions. **Shipped from** Factory near Toledo, O., or Richmond, Va., usually in 5 extra days. You pay postage only from nearest house.

Bow Pads—Tacks included. Fits touring; can be cut for roadsters.
M261A2706—Black for Fords. Wt. 1 lb. 12 oz. Pair.....**$1.35**
M261A2715—Khaki for Other Cars. Wt. 3 lbs. 4 oz. Pr..**$1.46**

HOW TO ORDER—State Make, Model, Exact Year, Factory No. of Car. Not for Sport Model Coupes or Convertibles. For Ford A State If Regular or Deluxe. Wts.: Touring Car 12 lbs.; Roadster 9 lbs. *Mailable.*

TOP WITH GLASS WINDOW—ORDER BOW PADS EXTRA AT LEFT

Black—For Ford, Chevrolet

Make and Year	Model	Art. No.	Price
FORD 1923–27	Tour.	M261A2480	$6.19
1923–27	Rdstr.	M261A2482	4.39
1928–33	Tour	M261A2481	5.35
1928–33	Rdstr.	M261A2483	4.37
CHEV. 1923–33	Tour	M261A3820	6.55
1923–33	Rdstr.	M261A3821	4.67

Tan Whipcord Top for Ford, Chev. 1923–34. Heavy weight for open touring and roadsters only (**not for sport model coupes or convertibles**). Well made—lock-stitched, reinforced. Fully tailored. See **ordering** info. above.
M261A2404—Touring.**$10.98**
M261A2405—Roadster **8.45**

TOP WITH CELLULOID WINDOW—ORDER BOW PADS EXTRA AT LEFT

With Gypsy Back Curtain Black—For Fords—1923-27

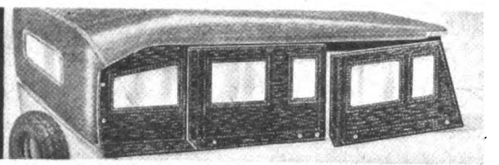
Style	Year	Article No.	Price
Tour.	1923–27	M261A2436	$5.10
Rdstr.	1923–27	M261A2437	3.28

With Straight Back Curtain Black—For Fords—1915-22

Style	Year	Article No.	Price
Tour.	1915–22	M261A2402	$4.39
Rdstr.	1915–22	M261A2403	2.59

BUY ON CREDIT

$2 A month buys $10 to $14.00 on Wards Time Payment Plan. See Details Inside Back Cover.



Tailored Side Curtains

$2.29 and up With Fittings

Wards Side Curtains cost little when you consider the added comfort they provide, the health protection they afford you. They fit snugly, keep out drafts, rain. The windows of transparent celluloid are extra wide for good clear vision. The heavy rubberized cotton drill is reinforced with lockstitched seams. Curtains attach to door; both open as a unit. For gypsy st le tops only. **Shipped from** Factory near Toledo, Ohio, or in Richmond, Va., usually in 5 extra days, but you pay postage only from nearest Mail Order House. Wts. Tour. 8 lbs.; Rdstr., 5 lbs. Instructions.

HOW TO ORDER SIDE CURTAINS

State make, year, model of car. If 1929-34 Ford, state if Regular or DeLuxe. Rods furnished for 1915–25 Fords—others use old rods. *Mailable.*

Black—For Ford Open Cars—1915-1934 All Models T, A, B and V-8
For Ford 1929-34 State if Regular or Deluxe

For Ford Touring	Model	For Ford Roadster
M261A2726 $5.49	1915–22	M261A2728 $2.29
M261A2458 5.38	1923–25	M261A2457 3.25
M261A2453 5.49	1926–27	M261A2456 3.29
M261A2730 6.59	1928–31	M261A2731 3.95
M261A2729 6.59	1932	M261A2732 3.95
M261A2733 6.59	1933–34	M261A2734 4.39

Black—For 1923-34 Chevrolet Open Cars
M261A5877—Touring. No Rods.....**$5.98**
M261A5879—Roadster. No Rods.....3.79
M261A5885—Set of 4 Rods. Wt. 4 lbs..**90c**

Tan Whipcord for 1923-34 Ford—Chevrolet
M261A2459—Touring.....**$9.89**
M261A2460—Roadster..... 6.29





Top Material for Autos, Trailers, etc. (By the Foot) Low As **21c** Ft. 54 in. Wide

- **Strong Pliable Rubberized Material. Beautifully Grained—Waterproof and Highly Resistant to Cracking.**
- **Easy to Put On—Holds Its Shape—Will Lie Flat.**

HOW TO ORDER: Take measurements old top length and width. Allow a little extra for stretching and trimming. Order necessary cement, binding welt and tacks listed below.

Black Double Texture for Long Service on Closed Cars Weighs 27 oz. per square yard. Heavy white cotton drill back woven from long fiber cotton. Center ply of cotton sheeting. Rubberized varnished coat.
661 A 874—Per Foot. 46 in. wide. Wt. ft. 13 oz. **31c**
661 A 864—Per Foot. 64 in. wide. Wt. ft. 1 lb. 2 oz. **36c**

Black Single Texture for Closed Cars Heavy white cotton drill—black rubber coated. Ship. wt. foot, 12, 15 oz.
661 A 873—Weighs 25 oz. per sq. yd. Per foot—46 in. wide... **22c**
661 A 863—Weighs 22 oz. per sq. yd. Per foot—64 in. wide... **25c**

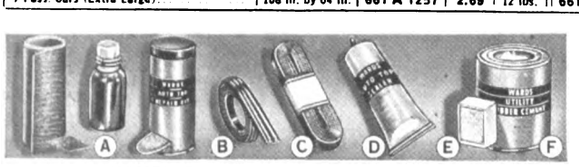
Single Texture for Open Cars Weighs 21 oz. per sq. yd. Black cotton drill. Rubberized coating.
661 A 766—Per Foot—54 in. wide. Ship. wt. per foot, 12 oz..... **21c**

Upholstery Materials Genuine du Pont "Cavalon." Made to specifications of truck body makers. Resistant to cracking. Leather-like coating on thick Cotton Twill back. Resistant to wear. Actual wt. per run. yard, 30 oz. Width 50 in. Ship. wt. per ft. 12 oz. 50 in. Wide **49c** Ft. Black
661 A 857—Black. Per Foot..... **49c**
661 A 858—Brown. Per Foot..... **55c**

Closed Car Top Outfit—Complete With Material, Tacks, Welt

Cut in approximate length and width as shown in table. Order size nearest that of your car. Then trim slightly to exact size. Instructions included.

Fits Car Specifications Below.		Single Texture (Like 661 A 863 Above)		Ship. Wt.	Double Texture (Like 661 A 864 Above)		Ship. Wt.
2 Pass. Coupes (Small)	45 in. by 46 in.	661 A 1252	98c	4 lbs.	661 A 1259	$1.39	5 lbs.
2 Pass. Coupes (Medium)	56 in. by 64 in.	661 A 1250	$1.49	7 lbs.	661 A 1265	1.98	7 lbs.
2 Pass. Coupes (Large)	63 in. by 64 in.	661 A 1254	1.59	7 lbs.	661 A 1261	2.19	7 lbs.
5 Pass. Cars (Small)	80 in. by 64 in.	661 A 1251	1.95	9 lbs.	661 A 1258	2.59	9 lbs.
5 Pass. Cars (Long-Narrow)	80 in. by 46 in.	661 A 1253	1.79	6 lbs.	661 A 1260	2.29	7 lbs.
5 Pass. Cars (Medium)	90 in. by 64 in.	661 A 1255	2.19	10 lbs.	661 A 1262	2.89	10 lbs.
5 Pass. Cars (Large)	100 in. by 64 in	661 A 1256	2.39	11 lbs.	661 A 1263	3.19	11 lbs.
7 Pass. Cars (Extra Large)	108 in. by 64 in.	661 A 1257	2.69	12 lbs.	661 A 1264	3.39	12 lbs.



HANDY TOP REPAIRS AND SUPPLIES

Ⓐ **Top Repair Kit!** Everything needed for a good quick repair job on holes, breaks, or tears in auto tops or back curtains. Complete kit—includes 127 sq. in. (Size 28x4½ in.) of black rubberized fabric—long, grain pattern; 2 oz. of rubber cement; metal spreader, butter. Packedin can.
61 A 1779—Ship. wt. 1 lb..... **25c**

Ⓑ **"Hidem" Welt for Installing Top Re-covers.** Black, glossy finished drill ⅞ in. wide. Twisted-cord beads divide for tacking—close when tacks are driven—conceal heads. For top re-covers, upholstery. Ship. wt. yard 2 oz.
661 A 757—Per Yard..... **4½c**

Ⓒ **Binding Material.** Neat auto trim to finish edge on auto top upholstery, etc. Attractive leather-like finished fabric. Black grained, ⅝ inch wide. Shipping weight 5 oz.
61 A 1867—15-Ft. Roll..... **11c**

Ⓓ **Black Sealing Compound.** Flexible—expands with material. For sealing edges, holes, cracks in tops or around windshield. Long nozzle on tube for easy use. For Sedans, Coaches, Coupes. Ship. wt. 9 oz.
61 A 854—4-oz. Tube..... **15c**

Ⓔ **Top and Upholstery Nails**—Blued steel tack points. Black rust-resisting heads. Length about ⅝ in. Ship. wt. 3 oz.
61 A 1789—Box of 50..... **5c**

Ⓕ **Rubber Cement.** For applying tops, running board matting, or for patching holes. Waterproof, black. Shipping weight 1 lb. 10 oz.
61 A 850—Pint can..... **26c**



Clear Transparent Sheets Best Quality Sheeting. Flexible, may be rolled or curved. For windows in auto tops, side curtains, hot beds, tent windows, etc. Ship. wt. 50-in. 1 lb., 25-in. 12 oz. Low As **29c**
561 A 755—Medium Weight. 20 by 50 in. Sheet..... **52c**
561 A 753—20 by 25 in. Sheet..... **29c**
Heavy Weight. 25% heavier than above.
561 A 754—20 by 50 in. Sheet..... **65c**
561 A 752—20 by 25 in. Sheet..... **34c**

Safety Glass FOR CARS AND TRUCKS Save 25% to 50%



Safety PLATE As Low As $4.95 Windshield — **Safety SHEET As Low As $3.19** Windshield

Compare prices. You'll find it's much cheaper to send to Wards and install it yourself. Wards Safety Glass is the "Hi-Test" type—the kind that is extra flexible—that won't shatter into bits—that gives extra protection to you against blows from heavy objects. It is the same as used on most new cars. Will not turn yellow. Wards offer two types at savings of 25% to 50%. Every piece cut to fit. Complete with instructions, installation materials.

Safety Sheet: Tough, flexible, laminated glass. For windshields, car windows, ventilators, rear windows.

Safety Plate: Thicker than safety sheet and highly polished to give perfect undistorted vision. Recommended for windshields because it minimizes eye strain and also resists breakage.

NOTE: To Replace with any but Safety Glass is unlawful in most states. Wards Safety Plate Glass meets legal requirements.

Windshields for Cars and Trucks 1929-41

Fit Models Below	Safety Plate		Safety Sheet	
1-Piece for Ford, Chev., Plym. Pass. Cars, Trucks	M261A1812	$8.79	M261A1800	$4.49
1-Piece for All Other Pass.	M261A1813	8.98	M261A1801	5.15
2-Piece for Pass. Only. Price is for ½ (1 glass only)	M261A1814	4.95	M261A1802	3.19

Door and Rear Side Windows Only—Pass. Cars Only 1929-41. State if for Rear Side Window or for Front or Rear Door.

Ventilator Glass not included	Safety Plate		Safety Sheet	
For Any Coupe	M261A1825	$7.98	M261A1803	$4.15
For All 2-Door Sedans	M261A1826	8.90	M261A1804	4.89
For All 4-Door Sedans	M261A1827	6.98	M261A1805	3.85

Ventilator Glass for Front Door or Rear Quarter 1929-41 Pass. Cars

Ventilator Glass Only	Safety Plate		Safety Sheet	
Front Door	M261A1823	$2.95	M261A1821	$1.80
Rear Quarter	M261A1824	2.95	M261A1822	1.80

Door Glass for 1929-41 Ford, Chev., Plym. Trucks
State Body Style, also if ½, ¾, or 1-Ton, etc.
M261A1830—Safety Plate.....**$7.15**
M261A1829—Safety Sheet..... **4.98**

HOW TO ORDER AUTO GLA

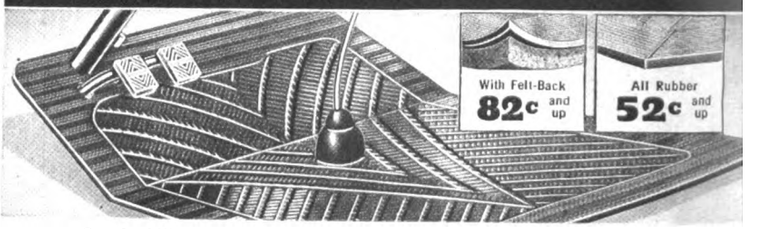
Give information on license card bill of sale, dash, frame, door pla
1. Make, Year, Model No. or L No. of Cyl., Serial or Factory
2. **Style:** (3 or 5-Window coupe, door Sed., Std., Sport, D Master, etc.).
3. If for right front, rear side, e
4. If car has trunk, side-venti length of wheelbase.
5. For 1930-31 Ford, straight or ing windshield, also body type
6. For 1933 G.M. cars, if dividi in front doors is stationary or l
7. For 1938–39 Plym., Dodge, D or Chrys., ventilating or st ary windshield.
8. For 1929 Ford 4-door Sedan if car has 2 or 3 side windows,
9. If rear quarter glass is flipper or stationary.

Ship. wts.: Full WINDSHIELDS: 25 half windshields 12 lbs. WIN Coupe 18 lbs.; 2-dr. Sed. and Tru lbs.; 4-dr. Sedan 15 lbs.; VENTILA 5 lbs. *All mailable*—**Shipped from** tory in Chicago, Phila. or Albany extra days, but you pay postage Mail Order House.

Flexible Window Channels Keeps out drafts—eliminates rat For 1933-41 cars with curved wind Flexible core. Felt edges and bott woven fabric lining. **Wts.** 1 and 2 lbs
561 A 2627—1 **pkg.** 2—36 in. strips
1 pkg.—two 72 in. strips.....

Rigid Type Window Channe For 1932 and previous cars. Rub covered steel, felt lined. Wt. 1 lb.
561 A 2625—1 pkg: 2—36 in. strips

DRESS UP YOUR CAR WITH A NEW FLOOR MAT



Standard Weight Flat Type Auto Floor Mats—Smart Looking—For All Cars

- **Dress Up Your Car.**
- **Keep Out Heat and Dust.**
- **Deaden Vibration, Noise.**
- **Prevent Cold Drafts.**
- **Easy to Sweep Clean.**

Made from tough standard weight Black rubber. Long wearing, non-s surface—easy to sweep clean. Felt back type gives best protection agai drafts, dust, heat and noise. With instructions. (For trucks order Univer type mat below.) **Ship. wt.** all rubber, 5 to 8 lbs.; felt back, 6 to 10 lbs.

Floor mat marked (*) for V-8 Ford covers floor only—not transmissi case. See No. 461 A 6001 below for mat that also covers transmission case.

Front Mats for Ford and Chevrolet—Holes cut or indicated (except for emergency brake).

For Passenger Cars	All Rubber	Each	With Felt Back	Each
CHEV. 1929-32	461A6017	65c	461A6028	95c
1933	.....	.....	461A6029	93c
1934 All; 1935 Std	.....	.....	461A6030	$1.09
FORD A 1928-31	461A6014	52c	461A6025	82c
1933-34, V-8	.....	.....	*461A6027	95c

Universal Front and Rear Mats—Order size nea est old mat. Use old mat as pattern for cutting hol and trimming new mat. 461 A 6033 is extra large f rear or late model fronts—others are for front onl

Width		Lgth. Ft.	All Rubber		With Felt Back	
Front	Rear	to Rear	Article No.	Each	Article No.	Each
34 in.	40 in.	34 in.			461A6021	85c
36 in.	44 in.	38 in.	461A6011	65c	461A6022	98c
53 in.	53 in.	39 in.	.....	.....	461A6033	$1.27



Wards Best Front Mats—Priced ½ Car Dealers' List!

New Recessed Felt Back Type. Outlast less expensive mats 2 to 1. Extra heavy tough Tan rubber — easy to sweep. Formed to fit snugly over drive shaft "hump." Holes cut or indicated except for emergency brake. Instructions. Ship. wt. 8 to 11 lbs.

For Passenger Cars	Art. No.	Each
Ford 1933-34	461A6001	$1.75
1935-36	461A6002	1.87
1937-40	461A6008	1.85
Chev. 1935 Master	461A6000	1.88
1936 All	461A6000	1.88
1937-38 All	461A6003	1.95
1939 All	461A6012	1.95
Plym., Dodge 1936	461A6005	1.95
1937-38	461A6010	1.98

Universal Front Mats

For other cars not listed at left or for use in rear; also for trucks. Use old mat as pattern for cutting holes and trimming.

Contour Type—formed to fit over drive shaft "hump."
For 1936-41 Buick, Chrysler, Hudson, LaSalle, Olds., Pontiac, Studebaker, Terraplane, Cadillac. Width 52 in. at front, 60 in. at rear; 39 in. long front to rear. Ship. wt. 11 lbs.
461 A 6034—Each..... **$2.10**

Flat Type—not formed to fit over drive shaft "hump." Ship. wt. 7 lbs.
461 A 6007—36 in. wide at front, 44 in. at rear; 38 in. long....**$1.45**

Low Cost Front Mat **39c** All Rubber

Improve the appearance of your car interior—keep out draft, dirt, and motor heat. Medium weight, black rubber. Width, 36 in. at front, 4 in. at rear; 36 in. long, front to rear. You can trim to fi using old mat as pattern. Instructions included.
461 A 5870—**All Rubber.** Ship. wt. 4 lbs. 6 oz. 39c
461 A 5871—**Rubber with Felt Back.** Ship. wt. 6 lbs. 69c

Add a New Floor Mat to Your Credit Order. For Complete Time Payment Details see the Inside Back Cover.



Buy With Confidence at Wards

Every Item Listed In Wards New Fall and Winter Catalog is Guaranteed to Satisfy or Your Money is Refunded. Order The Auto Accessories You Need Now—You'll Find Them as Represented. Every Part Listed Will Fit Those Models Stated. Be Sure to Give Us All The Information Requested.

New Floor Carpeting

For rear seat floor. Add freshness and beauty to your car. Good quality deep pile carpeting in serviceable dark taupe. Size 36 by 54 in. Lastex (rubber) coated back makes it lie flat on floor without slipping; keeps edges from raveling after trimming.
Shipping weight 5 lbs. 6 oz.
561 A 5850..... **$2.75**

Running Board Matting

Heavy black molded rubber with burlap back—sticks tight. 13-in. wide.
Shipping weight ft. 10 oz.
661 A 5918—Per foot..... **7c**

Running Board Matting Cement Very adhesive. Enough for 2 running boards. Wt. 1 lb. 10 oz.
61 A 9529—½-pt. Can..... **16c**

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Starts Fast

because of exclusive knife edge electrode

Found only in Wards Supreme Plug . . . its narrow firing edge allows the spark to jump the gap with 50% less voltage than in plugs with usual electrode construction—spark jumps easier and quicker. That's why on cold mornings when your battery is giving only 50% efficiency you're sure to get a quick, fast start. You'll also use less gasoline and get more power because of this more efficient electrode design

WHY PAY 65c

37c EACH Sets of 4 or More

Made especially for Wards by one of America's largest plug makers, using the same materials, as the one sold under its famous name at 65c.

WARDS GUARANTEE

Every Ward Supreme Quality Spark Plug is Guaranteed to last as long and perform as well as any spark plug made, regardless of price. If for any reason one should fail to give satisfactory service we will cheerfully replace it or refund your money.



WARDS SUPREME QUALITY SPARK PLUG

1. Approved Single Spark Type. One big **unified** spark—most powerful, most economical of gas.

2. Engineered for Your Car. Supplied in the proper type and heat range for popular cars, trucks, tractors. Also in "severe service" heat range for abnormal conditions. (See below.)

3. Long Life Electrodes. Special alloy resists pitting and burning—points stay clean, last longer, resist distortion.

4. Super Porcelain Insulator has greatest resistance to shorts. Unglazed firing tip resists carbon formation and fouling. Flanged gaskets give tight seal.

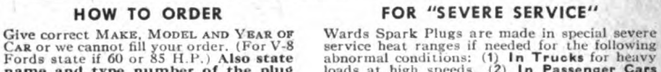
5. Exclusive Cadmium Plated Finish. Resists rust. Same finish as used on Airplane plugs.

If you've driven 10,000 miles or more, the chances are your car has lost part of zip and power due to bad plugs. Replace them now. You'll save on gasoline, get new power. Try Wards Supreme Quality, the plug that gives you the same quality features and performance as one of America's leading nationally advertised plugs, plus two *extra* exclusive features—knife-edge electrode, and rust-resisting finish. It's made especially for Wards by one of America's largest and best known spark plug makers—in the same factory, using the same materials as the one sold under their name for 65c.

For all cars, trucks, tractors, stationary engines, washing machine engines, outboard motors. (10 mm. size is 1-piece construction.) **State make, year, model of car, truck, tractor or engine. See "How to Order."**

6I A 9084—Single Plug. Ship. wt., 6 oz. Each **39c**
In Sets of Four or More. Gap tool included. Each **37c**

Arrangement of Knife-Edge Electrodes varies slightly on Wards Supreme Plugs. 10 and 14-mm. types are shown at right; all others are like big picture at top of page.



29c Each In Sets of 4 or More

22c Each In Sets of 4 or More

59c Each In Sets of 4 or More

Wards Twin Electrode Plug

- **Finest Porcelain Insulator.**
- **Center Electrode Cement Sealed.**

We believe this is the finest Twin Electrode Spark Plug made! It's fully equal to or better than any other twin electrode plug, regardless of make or price. The materials and workmanship are the same as Wards Supreme Quality but not cadmium plated.

Guaranteed equal to any other twin electrode spark plug made. If they do not last as long or perform as well as any other twin electrode plug return them and we will refund your money. **State make, model and year of car. See "How to Order" at right.** Not for Chev. and Buick 1941, Packard 1937-41, LaSalle and Cadillac 1939-41.

6I A 9088—Ship. wt. 4 oz. Each **31c**
In Sets of Four or More. Adjusting tool included. Each **29c**

Wards Standard Quality

- **Single Electrode Plug.**
- **Locking Copper Gaskets Give Leakproof Seal.**
- **Fine Porcelain Insulator to Resist Carbon Formation.**
- **Long-Life Electrode.**

Has all important features of leading nationally advertised Plugs, but sells for much less! Second only to Wards Supreme.

Supplied in proper "heat range" for your car. 14 mm. and 10 mm. size is 1-piece construction. For all cars. **State make, year, model of car. See "How to Order" at right.** Ship. wt. 6 oz.

6I A 9085—Each **24c**
In Sets of Four or More. (No Tool.) Each **22c**

Famous Champion

One of America's leading nationally advertised Plugs with "Approved" single type electrodes for best motor performance. Standard equipment for many cars, trucks and tractors. Has all leading Spark Plug features, such as Sillimanite insulator with Silliment seal; extra-range core; special long-life alloy electrodes; proper heat range. For all cars, trucks, tractors, stationary engines. **State make, year and model of car or engine. See "How to Order" at right.**

6I A9095—Each. *Postpaid* . . **65c**
In Sets of Four or More. (No Tool.) Each. *Postpaid* **59c**

Spark Plug Tool

New wire gauge type for greater accuracy in setting spark gaps. Sizes: .020, .025, .030, .033, .035, .040. For any plug. Complete with gap setting chart for popular cars. Ship. wt. 2 oz.

6I A 9090—Each . . . **9c**

Spark Plug Wrenches

Sizes quoted are large hexagon nut diameters. Ship. wt. 10 oz.

6I A 871—$^{13}/_{32}$–$^{15}/_{32}$ in. . . . **18c**
6I A 872—$^{25}/_{32}$–$^{11}/_{32}$-in. . . . **18c**
6I A 860—$^{9}/_{16}$ and $^{11}/_{16}$-in. Fits 10 millimeter Plug **18c**
6I A 870—$^{53}/_{64}$ and $^{29}/_{32}$-in. Most other Metric Plugs . . . **18c**
6I A 875—$^{21}/_{32}$–$^{27}/_{32}$-in. . . . **18c**

Plug Tester

Hold on spark plug—neongas window lights up, shows if plug is operating efficiently. With handy pocket clip.

6I A 3613—Wt. 2 oz. Each **20c**

HOW TO ORDER

Give correct MAKE, MODEL AND YEAR OF CAR or we cannot fill your order. (For V-8 Fords state if 60 or 85 H.P.) **Also state name and type number of the plug now in your car.** ***Special Note:*** Measure old plug if ordering for PLYMOUTH 1929 and 1932, DODGE 1929 and 1933 to 1936—FORD V-8 TRUCK AND PASS. 1932 and FORD V-8 1937-38, Buick 1941, because different size plugs were used within the year. Compare outside thread diameter of old plug with chart above.

FOR "SEVERE SERVICE"

Wards Spark Plugs are made in special severe service heat ranges if needed for the following abnormal conditions: (1) **In Trucks** for heavy loads at high speeds. (2) **In Passenger Cars** where center electrode in old plugs is completely eaten away after 4,000 to 5,000 miles. Just specify "Severe Service" on your order and Wards will select the proper heat range. For Ford T, Fordson, Buick 1941, Chevrolet 1941, Cadillac 1940–41, LaSalle 1940–41 and Packard 1937–41, plug manufacturers do not make special heat range plugs.

Best Oil Tanned Chamois Skins

14c 9x11 in.

100% American Tanned. Highly absorbent—absorbs many times its own weight of water. Dressed and buffed on both sides. For car washing, household uses, windows, etc. Lint free. Av. wt. 5 oz.

Shape	Appr. Size In.	Article No.	Price
Pocket	9 by 11	6I A 9446	14c
Pocket	13 by 17	6I A 9460	53c
Pocket	15 by 20	6I A 9467	69c
Skin Shape	20 by 25	6I A 9474	95c
Full Size	26 by 27	6I A 9454	$1.23

Sewed Chamois—Several pieces of skin sewed together. 6I A 9475—About 14 by 19½ in. Ship. wt. 5 oz. Each . . **23c**

Deer Skin Wiping Cloth—Oil Treated. Use like chamois—highly absorbent, remains soft and pliable after drying. No lint. About 24 by 34 in. Ship. wt. each, 8 oz.

6I A 9455—2 for . . . . . **93c**; Each **48c**

Dupont Body Polish

59c Pt.

75c Size. Famous Speed Blend. Sold nationally by leading auto dealers and service stations as cleaner and protector of fine car finishes. It cleans your car surface of road grime—wipes off to a brilliant finish in a jiffy. Buy a can—see how easy it is to keep your car finish like new.

6I A 9555—*Postpaid.* Pint can **59c**

Johnson's "Carnu"

59c

The same Nationally Famous "Carnu" Cleaner and Wax-Polish that is advertised by Fibber McGee over the radio. "CARNU" cleans and wax polishes your car in one easy operation. Easy to apply—just spread it on, let it dry and wipe it off. Your work is done in one simple operation. Gives a durable, protective weather-resisting luster to your car finish. You'll be proud of the way your car looks. It's easy on the finish, too—removes scum, road film, and grease. *Postpaid.*

6I A 9570—Pint can **59c**

Combination Cleaner-Wax

- **Wax Content of 100% Carnauba—the Hardest, Longest Lasting Wax Known.**

42c

Cleans and waxes in one operation—no cleaning before applying. Deposits a longer wearing wax coating on car finish because of its high content of 100% pure carnauba wax—the same carnauba wax approved for use on streamlined Zephyrs. Unadulterated with soft inexpensive waxes that don't last as long. Gives the same high luster and durability of paste waxes, but is much easier to use because of its patented formula of pure Carnauba Wax and a special solvent which allows this hard wax to be rubbed bright with only a few easy strokes.

6I A 9549—Pint can. Ship. wt. 1 lb. 14 oz. Each . . . . . 42c; 2 Pint Cans **79c**

Wards New Gardex

- **A New, Fast Wax-Polish—Just Apply it Lightly and Wipe it Off.**

47c 20-oz. Can

No more hard rubbing, no long hours of tedious work. Use Wards New Gardex and in less than half the time it used to take you've cleaned and wax-polished your car in one easy operation. It's the latest discovery of chemical science to speed up car polishing.

Gardex contains diatomaceous earth, the marvel cleaning agent that cannot possibly scratch the finest surfaces—removes road film, scum and grease. Extra saving—Wards Gardex comes in Big 20-oz. Can instead of usual Pint size.

6I A 9544—20-oz. can. Wt. 2 lbs. . . **47c**

Treated Polishing Cloth

(B) **Wards Supreme**—Removes dirt, dust, grease. Wax-treated cotton flannel. Gives glossy, weather-resistant sheen. 100% American Cotton 24 by 27-in. Durably bound edges. In oilcloth pouch. Wt. 8 oz.

6I A 9662—2 for . . . . 55c; Each **29c**

(A) **Rymplecloth Polish Cloth.** Highly absorbent. For auto or household use. Folds into a good full pad that won't "rope." Won't scratch. 100% American Cotton. Shipping weight package, 7 oz. About 60 square feet.

6I A 9619—2 for . . . . 42c; Each **22c**

(C) **Rock Island Sheeps wool Sponge**—toughest, most absorbent, best quality.

6I A 9483—Large Size. Ship. wt. 3 oz. . . **$1.45**

Cuban Sheepswool Sponge. Soft, absorbent.

6I A 9481—Large size. Ship. wt. 3 oz. . . **78c**
6I A 9499—Extra Large Size. Wt. 3 oz **$1.05**

Yellow Sponge—Tough. Good for scrubbing.

6I A 9487—Large Size. Ship. wt. 3 oz . . . **59c**

Grass Sponge—Satisfactory for light work.

6I A 9490—Medium Size. Ship. wt. 3 oz. . . **8c**

(D) **DuPont Cellulose Sponge**—For cleaning.

6I A 9469—3½ by 5¼ by 1⅝. *Postpaid.* **37c**

(E) **Washing and Polishing Yarn Mit.**

6I A 9458—Glove size. Ship. wt. 3 oz. . **25c**

Top Dressing for Rubberized Tops—Hard Bakelite base gives high luster, waterproof finish. Pint covers about 125 sq. ft. Wt. 1 lb. 6 oz.; ½ pts. 1 lb.

6I A 9643—Black. Pint **45c**
6I A 9678—Black. ½ Pint **25c**

For Non-Rubberized Tops—Colorless, for Khaki, Whipcord, Hunting Clothing.

6I A 9686—Pint (covers about 100 sq. ft.) **35c**

Extra Heavy. Fills cracks. Black.

6I A 9644—Pint (covers 64 sq. ft.) . . **43c**
6I A 9681—½ pint (covers 32 sq. ft.) **25c**
P7S A 322—½-in. **Brush.** Wt. 4 oz. **14c**

DuPont Black Top Dressing No. 7—Jet-black. Waterproofs rubberized fabrics. Dries in 4 to 5 hours. *Postpaid.*

6I A 9560—Pint (85c size) **69c**
6I A 9559—½ Pt. (50c size) . . . **39c**

DuPont Thickote—*Postpaid.*

6I A 9488—Pt. (75c size). Black. **59c**

Simoniz Products—*Postpaid.*

6I A 9572—Kleener—12-oz. can. **44c**
6I A 9571—Wax—7-oz. can. . . . **44c**
6I A 9573—Simoniz Wax—16-oz. can. Economy size. **79c**
6I A 9574—Simoniz Outfit—7-oz. can of Wax, 12-oz. can of K . . . **85c**

Spray Gun

Adjustable spray. Shut-off valve. Uses tire air, takes 5 lbs. pressure. Two 4-oz. jars. 5 feet hose.

6I A 6300—Wt. 1 lb. 4 oz. **47c**

Touch-Up Enamel—Jet Black. Dries quickly. No brush marks. 6-oz. can, brush.

6I A 9581—Wt. 12 oz. . . **24c**

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Every Ward Battery Shipped EXPRES

A NEW FAST SHIPPING SERVICE THAT DELIVERS YOU

WARDS PAY EXPRESS
When comparing Prices on Batteries, Remember Wards Pay the Express. This New Fast Shipping Service Saves You 5 to 8 Days' Time.

75c FOR OLD BATTERY
75c Refund Coupon Included with new Battery. Cash it when Old Battery is Delivered to Any Ward Retail Store or Order Office.

GUARANTEE
If a Ward Battery Fails Within Its Guarantee Period We Will Replace It, Charging Only for the Service Received. We Guarantee Satisfaction.

TIME PAYMENTS
Only $2 Down Brings You Any Ward Battery if Included in a $10 to $15.00 Order. See Inside Back Cover for Complete Time Payment Information.

HERE'S WHAT EXPRESS SERVICE MEANS

Your New Ward Auto Battery Arrives in Your Town in 1 or 2 Days After Shipment from the Factory Instead of the Usual 6 to 10 Days Required for Ordinary Freight Shipment.

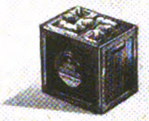
Which Battery Shall I Buy?

Consider these important things: (1) The minimum requirement is to buy a Battery with as much capacity as the one that came in your car (most original equipment batteries are 90-ampere hours or more). (2) If you have added accessories, be sure to buy a Battery large enough to supply them.

Minimum Starting, Lighting and ignition . . 80 Amp. Hrs.
Windshield Wiper . 8 Amperes
Radio . . . . . 10 Amperes
Heater . . . 3-7 Amperes
Spot Light . . . 3 Amperes
Fog Light . . . . . 3 Amperes
Back-up Light . . . . 3 Amperes
Extra Horn . . . . . 5 Amperes
Defroster . . 3-7 Amperes
Fan . . . . . 3 Amperes

(3) It is advisable to have extra reserve power for fast winter starting. In the table below we show the minimum ampere hour capacity needed for standard starting, lighting and ignition requirements as well as the amount of current (average) used by the various power-taking accessories.





COMMANDER
Power—80 Ampere Hours. Guarantee—12 Months. Will do the job of handling average starting load and lighting requirements on your car.



KWIK START
Power—100 Amp. Hours. Guarantee—24 Months. Gives average winter starting service and handles the usual accessory requirements.



WINTER KING
Power—110 Amp. Hours. Guarantee—30 Months. For long, hard service—handles the toughest winter starting plus many extra accessories.



SUPER POWER
Power—120 Amp. Hours. Guarantee—36 Months. Handles toughest winter starting plus plenty of reserve power for all the extra accessories.



GUARANTEED 12 MONTHS—$6.95 Value!

80 Ampere Hour Capacity—100 Ampere Output—ample for starting and lighting service except in colder climates where a higher capacity battery is recommended. For such conditions we recommend Wards Kwik Start, Winter King or Super Power Batteries at Right.

39 Standard Height Plates. Port Orford Cedar Separators. All New Materials—Leakproof Composition Case.

Select Battery Type from Opposite Page

Type	Case, Size, Inches Length	Width	Height	No. of Plates	Article Number	Full Price
1	9	7	7¾	39	261 A 40	$4.29
*1F	10½	7⅛	7	45	261 A 42	4.29

*Has non-flood vent caps.

Express Prepaid **$4.29** 75c FOR OLD BATTERY

Wards Commander Battery will give you performance equal to Nationally Advertised Batteries selling up to $6.95. Not an extra power battery, but a dependable battery with ample capacity for ordinary driving conditions. The lowest priced battery you can afford to buy—batteries with less power and capacity are not satisfactory. Their initial cost is nearly as much as Wards Commander, the cost per mo. of guaranteed service is almost twice as great. See opposite Page for car listings. *Shipped Express Prepaid.*

TRUCK BATTERIES—$13.45 VALUE



Express Prepaid **$8.60** And Up
75c FOR OLD BATTERY

Guaranteed 24 Months. Wards have a Battery to fit all trucks, taxicabs, tractors, Diesel engines, and commercial cars. Made with *Famous Vitanode Construction* like Wards Super Power for passenger cars, except heaviest throughout, to stand up under the grinding strain of truck operation. Read Vitanode story on facing page. Plates are thicker—withstand the constant jolts of continuous tough operation better. Hard rubber case—acidproof, leakproof. All Rubber Separators—more resistant to heat, cold, acid and wear. Prevents warping, splitting, cracking. Lead Bushing seals at terminals and connector posts. Truck Batteries *Shipped Express Prepaid* to save you 5 to 8 days' shipping time. If your particular truck or battery size is not listed below write us for prices, giving make, year and model of truck, bus, or Diesel.

ORDERING INFORMATION FOR TRUCK BATTERIES

Make, Model and Year	Type
Chev., All Models	1
Ford 1922-32	1
Ford 1933-39	1F
Ford 1940-41	2HF
International ½-¾ Ton	1

For Other Makes Measure Old Battery and Order by Size From Table at Left

974 WARDS2 CBA

Read Ordering Information at Left

Type No.	Case Length	Case Width	Case Height	No. of Plates	Amp. Hours	Article Number	Full Price
1	9⅛ in.	7 in.	8 in.	39	101	261 A 140	$8.60
1F	10⅛ in.	7⅛ in.	7 in.	51	110	261 A 141	9.25
2	10¼ in.	7 in.	8 in.	45	118	261 A 142	10.10
2HF	10⅛ in.	7¼ in.	8¼ in.	45	120	261 A 145	10.35
3	11⅛ in.	7 in.	8 in.	51	135	261 A 143	11.95
4	12⅛ in.	7 in.	8 in.	57	152	261 A 144	13.95

GUARANTEED 24 MONTHS—$9.95 Value

Express Prepaid **$5.85** And Up
75c FOR OLD BATTERY

Wards Kwik-Start Battery—Same quality and capacity as other Nationally advertised Batteries selling up to $9.95 elsewhere. Equals or exceeds capacity of most original equipment batteries.

45 Heavy Duty Plates—Ample starting power for average service.

100 Ampere Hour Capacity—122 Ampere Output.

Port Orford Cedar Separators.

Genuine Hard Rubber Case—acidproof, leakproof.

Lead Bushing Seals at Terminal Posts keep acid in, reduce corrosion.

New Non-Flood Cap—on types 1, 1F, 2, 2L and 2HF—Eliminates overflow of battery acids due to expansion—prevents corrosion of wiring, etc.

Shipped Express Prepaid—saves you 5 to 8 days' shipping time.

SELECT THE TYPE BATTERY YOUR CAR NEEDS—SEE TABLE AT RIGHT

Type No.	Case Length	Case Width	Case Height	No. of Plates	Amp. Output	Amp. Hours	Article Number	Full Price
1	9 in.	6⅞ in.	7¾ in.	45	122	100	261 A 120	$5.85
1F	10½ in.	7⅛ in.	7 in.	51	122	100	261 A 121	5.85
2	10¼ in.	6⅞ in.	7¾ in.	51	135	110	261 A 123	7.35
2L	10 5/16 in.	4 1/16 in.	8 in.	51	135	110	261 A 124	7.65
2HF	10½ in.	7¼ in.	8⅜ in.	51	120	152	261 A 125	7.85
2F	11¾ in.	7¼ in.	7 in.	57	135	110	261 A 126	8.25
3	11½ in.	6⅞ in.	7¾ in.	57	152	125	261 A 127	9.35
4	12¾ in.	6⅞ in.	7¾ in.	63	172	135	261 A 128	11.25
5	20¼ in.	5½ in.	7¾ in.	69	185	150	261 A 129	12.25
6	13½ in.	7 in.	8¼ in.	69	185	150	261 A 130	13.35
*7	11½ in.	7 in.	7¾ in.	42	57	48	261 A 131	8.25

*12 VOLT. For autos and any other purpose requiring a 12-volt battery.

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PREPAID

BATTERY QUICKER

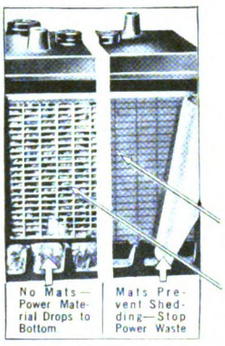
See What You Save!

Make and Year of Car	Original Equipment	Wards Super Power	Wards Winter King	*Wards Kwik Start
Ford 1933-39	$9.90	$8.95	$7.35	$5.85
Chev. 1937-39	10.45	8.95	7.35	5.85
Buick 1938-40	14.75	11.35	9.25	7.65

*Wards Kwik Start Equal to Original Equipment







These Pictures Show How Vitanode Feature Increases Battery Life

Wards Vitanode Construction—Note in small insert picture at left how the active plate materials are held in place by the glass fiber (Vitanode) retainer mats which fit up tightly against the plates. Practically eliminates shedding of power materials to bottom of case, one of the main causes of battery failure.

Ordinary Battery Without Vitanode Construction—This battery is practically dead—robbed of its power, because vibration and chemical action caused the power materials to fall to the bottom of battery case. Vitanode construction prevents this.

GUARANTEED 30 MONTHS—$12.75 Value

All-Rubber Separators—Allows quick power flow for fast starts. More resistant to heat, cold, acid.

51 Heavy Duty Plates—6 more plates than most equipment Batteries.

110 Amp. Hr. Capacity. 135 Ampere Output—More than ample for year-round service.

Hard Rubber Case—acid-proof, leakproof.

Lead Bushing Seals at Terminals and Connector Posts—seals the acid in.

New Non-Flood Cap—Eliminates over-flow of acids due to expansion—prevents corrosion of wiring, etc.

Wards New Winter King—now guaranteed 30 months. Built with larger capacity for heavier loads. You'd pay $12.75 elsewhere for a Nationally Advertised Battery with equal quality and capacity. It's the Battery to buy if you want quick, sure starts, extra capacity for extra accessories such as heater, defrosters, radio, extra lights and horns. Has long life rubber separators, hard rubber case, new non-flood vent caps. The same type construction as the most expensive batteries made. Check features at left. *Wards send your Battery Express Prepaid* to save you 5 to 8 days' shipping time.

Express Prepaid **$7.35** And Up

75c FOR OLD BATTERY

Select the type Battery Your Car Needs—See Table Below

Type No.	Case Lgth.	Case Width	Case Height	No. of Plates	Amp. Output	Amp. Hours	Article Number	Full Price
1	9⅛ in.	7 1/16 in.	7¾ in.	51	135	110	261 A 110	$7.35
1F	10½ in.	7 1/16 in.	7 in.	57	135	110	261 A 111	7.35
2	10¼ in.	7 in.	7¾ in.	57	152	125	261 A 113	8.75
2L	19 5/16 in.	4 1/16 in.	8 in.	57	152	125	261 A 114	9.25
2HF	10½ in.	7 1/16 in.	8¼ in.	51	152	120	261 A 115	9.25

GUARANTEED 36 MONTHS—$17.95 Value

Vitanode Construction—with fiber glass retainers. (Read above.) The same failure-proof construction used on Airplanes, Trains, and Submarines, where service must be unfailing.

All Rubber Separators—most resistant to heat, cold, acid and wear. Won't warp, split or crack. Allow battery acid to circulate faster—giving more power and quicker starts.

51 Heavy Duty High Type Plates—6 more than most equipment batteries.

120 Ampere Hr. Capacity—152 Ampere Output—more power for extras.

Hard Rubber Case—Acidproof, leakproof.

Lead Bushing Seals—At terminal and connector posts. Seals acid in.

New Non-Flood Cap—Eliminates overflow of battery acids due to expansion—prevents corrosion of wiring, etc.

Wards Vitanode Super Power—our biggest and best Battery! Gives "spinning" power that will whirl your motor over and over, no matter how cold the weather. With its rubber separators, its Vitanode Glass—Fiber construction, and its giant size plates (⅛-in. higher than usual plates) it compares in power and capacity with batteries selling up to $17.95. Has the greatest reserve power of all Wards Batteries to keep your car radio clear and full toned, to run extra lights, heater, defrosters, horns. *Shipped Express Prepaid* to save you 5 to 8 days' shipping time.

Express Prepaid **$8.95** And Up

75c FOR OLD BATTERY

Select the Type Battery Your Car Needs—See Table Below

Type No.	Case Length	Case Width	Case Height	No. Plates	Amp. Hours	Amp. Output	Article Number	Full Price
1	9⅛ in.	7 in.	8 in.	51	120	152	261 A 100	$8.95
1F	10½ in.	7⅛ in.	7¼ in.	57	115	140	261 A 101	8.95
2	10¼ in.	7 in.	8 in.	57	132	170	261 A 103	10.85
2L	19 5/16 in.	4 1/16 in.	8 in.	57	132	170	261 A 104	11.35
2HF	10½ in.	7¼ in.	8¼ in.	57	132	170	261 A 105	11.35

SELECT THE TYPE BATTERY FOR YOUR PASSENGER CAR HERE



Find car or tractor below and order proper type under battery wanted. State make, year, model. Wards batteries are the same size and shape as original—we send proper type and shape. If your car or tractor is not listed, measure old battery case and order proper size from battery listings Not for Powerlight Systems. Batteries Shipped Express Prepaid from Factory Stock in Chicago Heights, Ill., North Bergen, N.J. or Depew, N.Y. Allow 1 extra day for Shipment.

Buick Pass. Cars	Type
1925-29 Stand. 6	1
1925-29 Mast. 6	2
1930 Series 40	1
1930 Series 50, 60	2
1931 Series 50, 60	1
1931 Series 80, 90	2
1932-37 Series 40, 50	1
1932-37 Series 60	2
1932-35 Series 80, 90	3
1936-37 Series 80, 90	2
1938-41 All Models	2L
Cadillac Pass. Cars	
1932-36 V8	3
1937-38 Models 60, 65	2
1937-38 Models 70, 75	3
1939-41 All V8 Models	2
Chevrolet Pass. Cars	
1929-36 All models	1
1937-39 All models	1F
1940-41 All	1
Chrysler Pass. Cars	
1931 6 Cyl.	1
1932-39 All 6 Cyl.	2
1940-41 All Models	2

DeSoto Pass. Cars	Type
1928-31 6 Cyl.	1
1928-31 All 8 Cyl.	2
1932-33 All Models	2
1934 Mod. SE Airfl	3
1935-41 All Models	2
Dodge Pass. Cars	
1922-26 All 12 volt systems	7
1926-27 All 6 volt systems	2
1928-29 Stand. & Victory 6	2
1928 All 4 Cyl	1
1928-29 Senior 6	3
1929-30 Model DA6	2
1930-33 All 8 Cyl.	3
1930-34 All 6 Cyl.	1
1935-41 All models	1
Essex Terraplane Pass.	
1932 All models	2
1933 Terraplane 6	1
1933 Terraplane 8	2
1934-38 All models	1F
Ford Pass. Cars	
1922-32 All models	1
1933 All 4 Cyl	1
1933-39 All V8	1F
1940-41 All	2HF

Graham Pass. Cars	Type
1931-34 Models 53, 54, 56, 57, 64, 77, 69	2
1933-35 Mod. 65, 68, 73, 74	1
1935 Models 72, 75	2
1936-37 80, 90, 110, 85, 95	1
1936-37 Models 116, 120	2
1938-40 Standard	1
1938-40 Supercharger	2
Hudson Pass. Cars	
1922-30 All 6 Cyl	2
1930-31 All 8 Cyl	1
1932-33 All models	2
1934-41 All 8 Cyl	2F
1935-41 All 6 Cyl	1F
Hupmobile Pass.	
1931 Century 6 & 8, C	2
1932 Models 226, 237	3
1932 216, 218, 221, 222	2
1933-39 All except 6W-417	2
1934 Mod. 6W-417	1F
Lafayette Pass. Cars	
1934-40 All models	1
LaSalle Pass. Cars	
1928-31 All models	2
1932-34 All models	3

LaSalle Pass. Cars (Cont.)	Type
1935-40 All models	2
Lincoln Pass. Cars	
1923-30 All Models	5
1931-36 All models	6
1936-39 Zephyr	1F
1940-41 Zephyr	2HF
Mercury Pass. Cars	
1939 All models	1F
1940-41 All	2HF
Nash Pass. Cars	
1931-34 Models 660, 1060, 1120, 1130, 1170, 1220	1
1931-34 870, 880, 1070, 1080, 1180, 1280	2
1931-34 890, 1090, 1190, 1290	3
1935-41 All 6 Cyl	1
1935-41 All 8 Cyl	2
Oldsmobile Pass.	
1934 All 8 Cyl	2
1924-37 All 6 Cyl	1
1935-37 All 8 Cyl	2
1938-41 All Models	2L

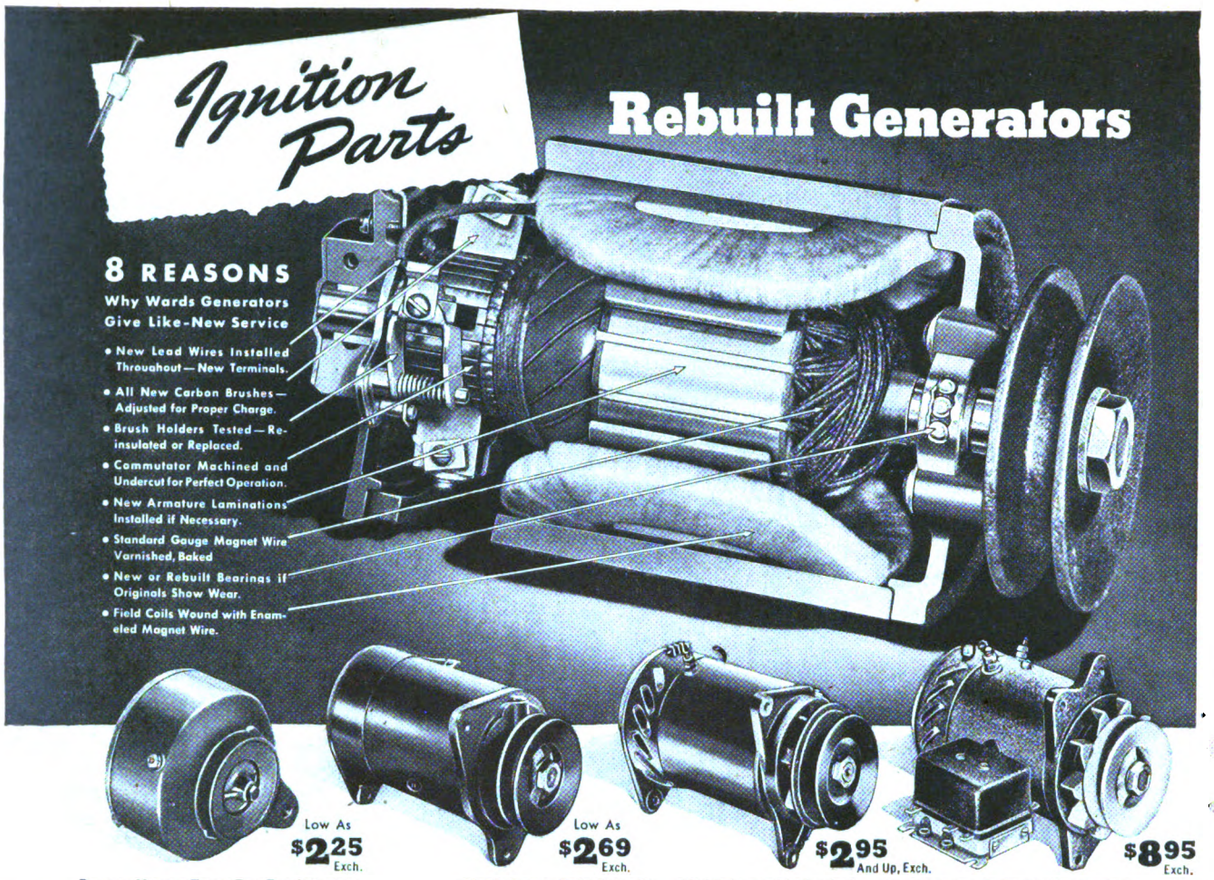
Overland Pass. Cars	Type
1922-26 4 & 6 Cyl.	1
1927 6 Cyl.	2
1939-40 All Models	1
Packard Pass.	
1922-28 All 6 Cyl., 143	2
1926-30 Light 8 Cyl. mod. 626, 633, 726, 733	3
1931-34 All models	4
1935-36 All 6 Cyl. & 8-120	2
1937-41 All 6 Cyl	1
1937-39 All 8-120	2
1940-41 All models	2
Paige Pass. Cars	
1926-27 All models	2
Plymouth Pass.	
1928-41 All models	1
Pontiac Pass.	
1926-32 All 6 Cyl	1
1932 8 Cylinder	2
1933 8 Cylinder	1
1934 8 Cylinder	2
1935-37 6 Cylinder	1
1935-37 8 Cylinder	2
1938-41 All models	2L

Studebaker Pass.	Type
1928 Commander	2
1929 Commander	1
1928-30 President	2
1931-35 All 8 Cyl. except 1933 Commander	3
1931-35 All 6 Cyl.	1
1933 Commander	1
1936 All models	1
1937-38 All models	2
1939-41 All models	1
Terraplane See Essex	
Willys Willys Overland Pass.	
1923-27 All models	1
1930-40 All 6 Cyl	2
1931-32 All 6 Cyl.	1
1930-32 All 8 Cyl.	3
1933-All models	1
1934-41 All	1
Allis Chalmers	
1940 Model C, WC	1
1940 Model V, VC	2
1940 Model L, KO (Gas)	4
1940 S, KO (Diesel)	(2)4

Case	Type
1938-40 Model C, CC, CO, CY, DC, RE	2
1940 Model L	4
1940 Model V	1
John Deere	
1933-40 Model A, B, D (Lighting only)	1
1939-40 A (Starting and Lighting)	2
1939-40, B (Starting and Lighting)	1
1939-40, D (12 Volt Starting and Lighting)	(2)1
International	
1940 Model H	1
1940 Model M	4
Minneapolis-Moline	
1940 Model R, Z	1
1940 Model G, V	2L
Oliver	
1940 Model 70, 90	4
1940 Model 80, 99	1

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Ignition Parts — Rebuilt Generators



8 REASONS

Why Wards Generators Give Like-New Service

- New Lead Wires Installed Throughout—New Terminals.
- All New Carbon Brushes—Adjusted for Proper Charge.
- Brush Holders Tested—Re-insulated or Replaced.
- Commutator Machined and Undercut for Perfect Operation.
- New Armature Laminations Installed if Necessary.
- Standard Gauge Magnet Wire Varnished, Baked
- New or Rebuilt Bearings if Originals Show Wear.
- Field Coils Wound with Enameled Magnet Wire.

Low As **$2.25** Exch.

Low As **$2.69** Exch.

$2.95 And Up, Exch.

$8.95 Exch.

$15

WHICH GENERATO SHALL I BUY?

Your battery can deliver only as current as your Generator puts in so consider these important fac (1) The minimum requirement is t a Generator with as much capaci the one that came in your car to h original starting and lighting re ments. (2) If you have found tha use of your radio, heater, extra l etc., drains your battery so rapidly you don't have sufficient powe starting, you need a higher cap Generator than the original. (See ing table below for capacity of original equipment generator.) For convenience in determining the s buy we show here the amount o rent (average) used by accessories require extra current.

Radio	10.0 amps.	Fog Lamps	6.00
Fan	3.00 amps.	Heater	3.25
Spot Light	3.00 amps.	Defroster	3-7

HOW TO ORDER

Wards offer two Exchange Plans Send your old generator in with order. (2) Send full purchase price return generator later for Refund. erator returned must be same ty one ordered. It must be complete sembled and unbroken. IMPORTA Remove your old cutout. Prepay ping charges on returned gener Instructions included.

GENERATOR GUARANTEE

We Guarantee every Ward Gene to be completely rebuilt as describe give service equal to original equip on your car, to be free from defect give you complete satisfaction.

Power House Type For Ford A-AA

Developed for original equipment on 1928 Fords. Also replace long type used on 1929–31 Fords. Deliver high charge at slow speeds. Rebuilt and renewed. For best service replace your cutout too. The old one may be defective. Wt. 17 lbs.

P461 A 2838—For Ford A-AA 1928, Exact replacement of original Power House type. Exchange Price.....$2.85; Full Price.....$3.75

P461 A 2837—For Ford A-AA 1929–31. Power House type (as illustrated) replaces original long type. Order P461 A 2837 only if you are returning a long type generator. Exchange Price.....$2.25; Full Price.....$3.75

12-14 Amp. Std. Rebuilt

Not air cooled—same long type generator as original equipment. Ready to install—completely rebuilt by factory trained experts. All parts checked—all worn or faulty parts replaced with new parts. Read "Which Generator Shall I Buy?" above. **Be sure to remove and keep old cut-out.** Av. ship. wt. 23 lbs.

18-28 Amp. Air Cooled

Exact replacement for cars using air cooled type generators as original equipment. Also an improved replacement for cars that came with non-air cooled 12 ampere generators. Gives 50% more current on these older cars than original generator. Completely rebuilt. Av. ship. wt. 23 lbs.

32-34 Amp. Rebuilt Air Cooled

EXTRA Capacity—ample power for heater, radio, extra lights, etc. Replaces 12 to 34 amp. original generators. Heavy duty brushes, large field coils, large armature. With automatic voltage regulator, current control, new wiring harness. Not for 1940–41 cars. Av. wt. 23 lbs.

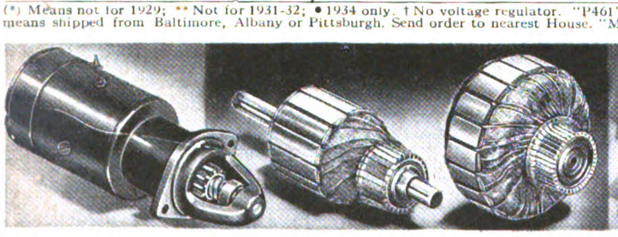
For 32 or 40-Amp. Generators—If your car or truck is not listed order 61 A 3023 or 61 3020 if negative battery post is grounded. Order 61 A 3022 or 61 A 3021 if positive batt post is grounded. Will not fit cars with water pump that operates direct from generator sha

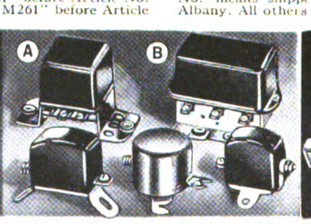
New 40 Ampere Air-Cooled—Not Rebuil

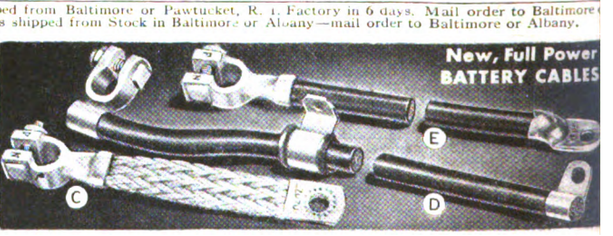
A Super Power Generator to handle the maxim number of accessories such as radio, heater, froster fan, fog lights, clock, etc. The size used many 1940–41 "better cars." Charges at high capacity required by battery. With 3-unit volt regulator-current control-cutout; wire, mount parts, instructions. No exchange. $2.50 Down, $2 a month, on time. Av. ship. wt. 30 lbs.

BE SURE TO STATE MAKE, YEAR, MODEL OF CAR	12 to 14-Ampere Rebuilt			18 to 28-Ampere Rebuilt				32-34-Ampere Rebuilt				40-Ampere New	
	Article No.	Exch.	Full	Amperes	Article No.	Exch.	Full	Amps.	Article No.	Exch.	Full	Article No.	Outright
Ford T-TT, 1919–27 (No Exchange)	P461 A 2832		$2.89										
Ford, A-AA, B-BB 1928–32 Genuine Auto Lite Type	461 A 3100	$2.69	4.19	18	P461 A 3005	$2.95	$5.45						
A-AA, B-BB 1928–32 Converted T Type	461 A 3190		2.75	18	P461 A 3005	2.95	5.45						
1933–36 V-8 (single pulley)	P461 A 3102	2.79	5.79	18	P461 A 3003	3.65	6.65	32	461 A 3024	$8.95	$11.95	461 A 3019	$15.75
1937–38 all; 1939 60 H.P.				18	P461 A 3006	3.25	6.65	32	461 A 3024	8.95	11.95	461 A 3019	15.75
1939 85 H.P.; 1940–41; **Mercury**, 1939–41								34	†461 A 3039	4.45	8.95	461 A 3019	15.75
Chevrolet, 1926–33, All; 1934–36 Standard	P461 A 5756	2.69	4.19	18	P461 A 3004	3.65	6.65	32	461 A 3023	8.95	11.95	461 A 3020	15.75
1934–36 Master				18	P461 A 3015	3.25	6.65	32	461 A 3023	8.95	11.95	461 A 3020	15.75
1937				18	P461 A 3009	3.20	6.60	32	461 A 3023	8.95	11.95	461 A 3020	15.75
1938–39				28	P461 A 3017	3.20	6.60	32	461 A 3023	8.95	11.95	461 A 3020	15.75
Chrysler, 1928–29, 65, 1930, 66-70-71; 1931–32, 6 and 8, 1933, 6	P461 A 5756	2.69	4.19	18	P461 A 3004	3.65	6.65	32	461 A 3022	8.95	11.95	461 A 3021	15.75
1933–34, 6 cyl. (For 1935–36 Chrysler see Plymouth below)				18	P461 A 3004	3.65	6.65	32	461 A 3022	8.95	11.95	461 A 3021	15.75
DeSoto, 1929–33, All. (For 1935–36 De Soto See Dodge below)	P461 A 5756	2.69	4.19					32	461 A 3022	8.95	11.95	461 A 3021	15.75
Dodge, 1929–32, All ex. Sr. 6; 1933, 6	P461 A 5756	2.69	4.19	18	P461 A 3004	3.65	6.65	32	*461 A 3022	8.95	11.95	*461 A 3021	15.75
1935–36; **DeSo to**, 1935–36				18	461 A 3008	3.29	6.69	32	461 A 3022	8.95	11.95	461 A 3021	15.75
Dodge, 1937 D6, 1938 D9, 1939 D12 (Not D5)				20	461 A 3035	3.59	7.59	32	461 A 3022	8.95	11.95	461 A 3021	15.75
Olds., 1931 and 1933, 6, 8. (For Olds., 1935–38 see Pontiac below)	P461 A 5756	2.69	4.19	18	P461 A 3004	3.65	6.65						
Plymouth, 1931–33, 1934 P-F	P461 A 5756	2.69	4.19	18	P461 A 3004	3.65	6.65	32	* 461 A 3022	8.95	11.95	**461 A 3021	15.75
1935–36; (**Chrysler**, 1935 C1, C3, C6, CZ; 1936 6 cyl)				18	461 A 3008	3.29	6.69	32	461 A 3022	8.95	11.95	461 A 3021	15.75
Plymouth, 1937 P4; 1938 P6; 1939 P8				25	461 A 3034	3.59	7.59	32	461 A 3022	8.95	11.95	461 A 3021	15.75
Plymouth, 1937 P3; 1938 P5; 1939 P7				20	461 A 3035	3.59	7.59	32	461 A 3022	8.95	11.95	461 A 3021	15.75
Pontiac, 1927–34, All	P461 A 5756	2.69	4.19	18	†461 A 3004	3.65	6.65	32	•461 A 3023	8.95	11.95	•461 A 3020	15.75
1935–36; **Oldsmobile** 1935–38, 6 and 8				18	M261 A 3016	3.29	6.69	32	461 A 3023	8.95	11.95	461 A 3020	15.75
Pontiac, 1937–39				28	P461 A 3017	3.20	6.60	32	461 A 3023	8.95	11.95	461 A 3020	15.75
Terraplane, 1932–33, All 6 and 8 cylinder	P461 A 5756	2.69	4.19					32	461 A 3022	8.95	11.95	461 A 3021	15.75
1933, 6-8, 1935–36 DeLuxe, **Hudson** 1934–36, 6 and 8				18	M261 A 3016	3.29	6.69						

(*) Means not for 1929; ** Not for 1931–32; • 1934 only. † No voltage regulator. "P461" before Article No. means shipped from Baltimore, Albany or Pittsburgh. Send order to nearest House. "M261" before Article No. means shipped from Baltimore or Pawtucket, R. I. Factory in 6 days. Mail order to Baltimore or Albany. All others shipped from Stock in Baltimore or Albany—mail order to Baltimore or Albany.







Rebuilt Starters—Save Up to 50%

All worn parts replaced—new brushes, machined commutator, new or rebuilt bearings. **Mailed from Factory** in Elkhart, Ind., usually in 6 extra days.

LOW AS **$3.49** Exchange

Only for Following Cars	Exch.	Full
M261 A 3044 For Ford A, 1929 31 Wt 20 lbs	$3.49	$5.49
M261 A 3045 For Ford V 8, 85 h.p., 1932–39 **Mercury** 1939 41 Wt 18 lbs	3.75	5.75
M261 A 3046 For Chev. 1929 33, Std., 1934 Wt 22 lbs	3.49	5.49
M261 A 3047 For Chev. Master and Truck, 1934, all 1935 36 Wt 23 lbs	4.45	6.75
M261 A 3048 Chev. 1937 Wt. 24 lbs	4.45	7.25
M261 A 3049 Chev. 1938 40 Wt 24 lbs	4.45	7.25

Rebuilt Starter Armatures

61 A 3043—For **Ford V-8,** 85 h.p., 1942–40. Mercury 1938–40. Wt. 6 lbs. Exch. Price **$1.69**; Full Price.....**$2.49**

61 A 3013—Fits **Chev.** all 1926–33; Stand. 1934. **Plym.** 1928 29. **Chrys.** 1925, Model 50, 52, 60, 62—1926–28; 65—1928 29. **DeSoto, Dodge** 1928 29. **Pont.** 1926–29. **Studebaker** 1925 29 Std. 6; 1926–29 Dict.; 1940 41 Comm. Wt. 5 lbs. Exch. Price **$1.69**; Full Price.....**$2.49**

61 A 3025—Fits **Chev.** 1934 37; **Pontiac** 1934 36 **Reo Flying Cloud,** 1935 36; **IHC** 1937–38. Ship. wt. 6 lbs. 12 oz. Exch. Price **$1.69**; Full Price.....**$2.49**

Rebuilt Generator Armatures

Completely renewed in looks, quality and performance. Completely tested, checked and thoroughly reconditioned by experts like Generators described above. New or reinsulated commutators, machined and undercut for perfect brush operation. Shafts cleaned and trued. Rewound with new insulated wire. Two Ordering Plans—see above at right. Shipping wt. 5 lbs.

LOW AS **$1.45** Exchange

Armatures for Fords

61 A 2833—For Ford T-TT, 1919–27. Exch. Price **$1.45**; Full Price.....**$1.95**

61 A 3200—For Ford A-AA Flat Type (Original Equipment in 1928). Exch. Price **$1.45**; Full Price.....**$1.95**

61 A 3201—For Ford A-AA. Long Type (with Bearings on En Exch. Price **$1.45**; Full Price.....**$1.95**

61 A 3010—For Ford A-AA, B-BB, 46—1930–34. Long Type (Bushings on Commutator End). Exch. Price **$1.49**; Full Price....**$1.99**

61 A 3012—For Ford V-8, 1932–33. Exch. Price **$1.49**; Full Price.....**$1.99**

61 A 3036—For Ford V-8, 1934–38; 1939 Model 60 Exch. Price **$1.69**; Full Price.....**$2.49**

Armatures for Other Cars

61 A 3011—Replaces Armature No. 817221. Chevrolet, all 1926–33; 1934–36, Std.; Chrysler 1928–29, 65–66, 1930–33 CI, CM, CO; DeSoto 6, 1931–33; 8, 1931–32; Dodge 6, and Plymouth, 1931–34; Pontiac 6, 1926–32. Exch. Price **$1.49**; Full Price.....**$1.99**

61 A 3018—For Chevrolet 1934–36 Master; 1937 All. Exch. Price **$1.89**; Full Price..**$2.69**

ONLY $2.50 A MONTH FOR A NEW 40-AMPERE GENERATOR

If you've added radio, fog lights, etc., to your car, you probably need a more powerful generator. Wards Time Payment Plan makes it easy to buy.

Generator Cut-Outs

Heavy Duty. For car generators up to 35 amps. capacity. (ex. Hudson, Essex, Terraplane). **State make, year, model of car.**

61 A 8790—Ship. wt. 8 oz.... **55c**

Regular Type. Not for cars with air-cooled generator. Wt. 8 oz.

61 A 2997—For Ford 1921–38 (ex. 1937–38 with volt. regulator).**30c**

61 A 2998—For cars with 6-volt cutout (ex. Ford). **State make, year, model of car**.....**30c**

Voltage Regulators

(B) For replacement only.

Triple Unit Types. Shipping wt. 2 lbs. 2 oz.

61 A 5321—For Ford, Zephyr, Mercury, 1938–41.....**$3.19**

61 A 5322—For Buick, Chev. Olds., Pontiac, 1940–41. **$3.49**

61 A 5323—Chrys., DeSoto, Dodge, 1937–41. Plym., 1937–38, P3, P4, P5, P6, if equipped with 2-brush generator. Packard 1937–39, 1500, 1501.....**$3.49**

Double Unit Type

(A) For cars with 3 brush generators with voltage regulator. Not for 1940–41 cars or Ford, Mercury or Zephyr. Check No. of brushes. **State make, year, model of car** and No. of present regulator. (See cover or base.)

61 A 5318—Wt. 1 lb. 8 oz. **$1.98**

***32-Ampere Regulator**—For 61 A 3022, 3023, 3024 Generators. **M261 A 3041**—**State make, year, model.** Wt. 1 lb. 8 oz. **$3.19**

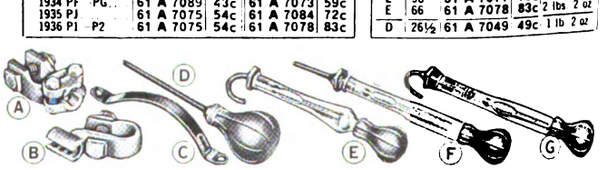
***40-Ampere Regulator**—For 61 A 4019, 4020, 3021 Generators. **M261 A 3040**—Wt. 1 lb. 8 oz. **$3.19**

*32 and 40 Amp. Shipped from Chicago Factory in 6 extra days **State make, year, model.**

Duplicates original equipment in size and gauge. Battery to Car Frame Type is of new positive weatherproof construction. Order from car listing table or measure present cable and order from right hand table. See right hand table for all ship. wts.

Make, Model of Car	Battery to Frame: Article No.	Price	Battery to Starter Switch: Article No.	Price
CHEV 1935 Master, 1935 Std	61 A 7080	22c	61 A 7089	43c
1936 Master	61 A 7080	22c	61 A 7084	72c
1936 Std.	61 A 7080	22c	61 A 7089	43c
	61 A 7082	24c	61 A 7072	47c
Ford 1920–27 All	61 A 7070	17c	61 A 7072	47c
1928–31 A	61 A 7082	24c	61 A 7074	32c
1933–34 V-8	61 A 7086	29c	61 A 7089	43c
1935–36 All	61 A 7082	24c	61 A 7049	49c
1937–38, All	61 A 7080	22c	61 A 7074	32c
Plym. 1933 All	61 A 7089	43c	61 A 7083	65c
1934 PE	61 A 7072	47c	61 A 7073	59c
1934 PF PG	61 A 7089	43c	61 A 7073	59c
1935 PJ	61 A 7075	54c	61 A 7084	72c
1936 P1 P2	61 A 7075	54c	61 A 7078	83c

Type	Light In.	Article No.	Each	Ship wt
C	6	61 A 7070	17c	7 oz
C	8	61 A 7071	20c	8 oz
C	10	61 A 7080	22c	8 oz
C	13½	61 A 7082	24c	8 oz
C	17	61 A 7086	29c	11 oz
E	19⅜	61 A 7074	32c	15 oz
E	27	61 A 7089	43c	1 lb
E	30	61 A 7072	47c	1 lb 2 oz
E	38	61 A 7075	54c	1 lb 8 oz
E	41	61 A 7073	59c	1 lb 8 oz
E	46	61 A 7083	65c	2 lbs 4 oz
E	54	61 A 7084	72c	2 lbs 10 oz
E	58	61 A 7077	75c	1 lb 14 oz
E	66	61 A 7078	83c	2 lbs 2 oz
D	26½	61 A 7049	49c	1 lb 2 oz



Battery Cable Terminals

(A) **61A3885**—**Bolt-on type.** For any cable. Wt. 9 oz.....20c

(B) **61 A 3886**—**Clamp-on-Type.** Fits any cable. Wt. 5 oz.....12c

Battery Lifter and Carrier Strap

(C) **61A3882** 10½ in. (Not for long type batteries.) Wt. 6 oz. 10c

(D) **61A3856**—**Battery Filler**—6 oz. rubber bulb. Overall length 11 in. Ship. wt. 9 oz.....23c

Accurate Battery Hydrometers

For all storage batteries. Ship. wt. ea. 11 oz.

(E) **61 A 3860**—**Good**—Tapered glass barrel. 2-oz. rubber bulb.....33c

(F) **61 A 3865**—**Better**—Rubber narrow tip nozzle. Double diameter barrel. 2-oz rubber bulb.....59c

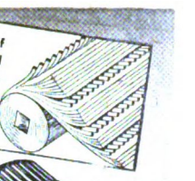
(G) **61 A 3866**—**Best**—Built-in thermometer with correction table—gives you correct reading regardless of temperature. Double diameter barrel. 2-oz. rubber bulb With instructions for use.....79c

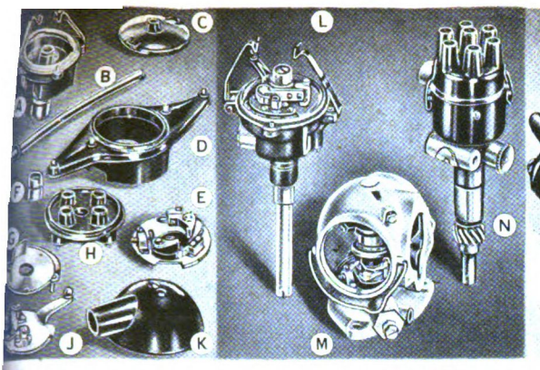
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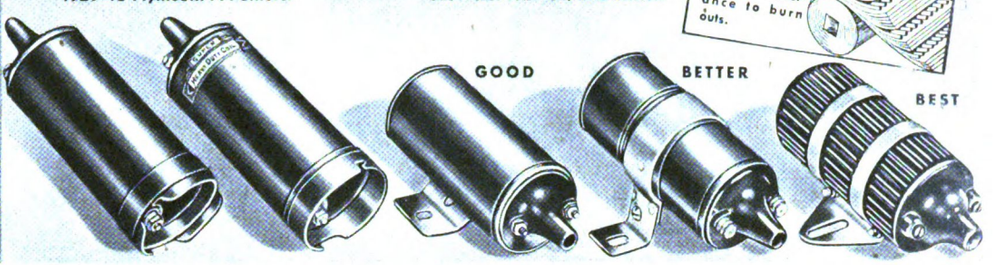
Ignition Coils at ½ List Price

LOCKING TYPE—for 1930-40 Chevrolet, 1929-40 Plymouth . . . others.

NON-LOCKING TYPE—For Ford A, Chevrolet 1929-32, and others.







Distributor Parts for Fords

Sparkline Parts

Breaker Plate Assemblies. Complete—points, best Tungsten discs, spring steel arms. Bakelite bushings and bumpers, all mounted on base plate. V-8 type is synchronized, timed.

(I) **61 A 3176**—For 1928-31 A-AA Fords. Shipping weight 6 oz. Each . . . 42c

61 A 3177—For 1932-35 V-8 Fords. Shipping wt. 8 oz. Each . . . 75c

(J) **61 A 5468**—**Body.** Fits 1928-33 Models A-AA, B. Shipping weight 8 oz. Each . . . 35c

Distributor Covers. Ship. wt. 8 oz.

(K) **61 A 5466**—Fits 1928-33 AA, B. Each . . . 10c

(K) **61 A 5467**—1932-40 V8. Each . . . 23c

Terminal Plates. Ship. wt. 6 oz.

(K) **61 A 5469**—1932-36, V-8 (exc. 1936, 68). Each . . . 35c

(K) **61 A 5465**—1936 V-8, 68; all 1937-V-8, Each . . . 39c

Wards Standard:

(E) **61 A 3275**—**Base Plate** for Ford 1928-31 A-AA. Ship. wt. 3 oz. . . . 15c

(A) **61 A 3316**—**Housing Assembly** for 1928-31, A-AA Fords. Shipping wt. 1 lb. 11 oz. . . . $1.00

(B) **61 A 3291**—**1-Piece Shaft.** For 1928-31 A-AA Fords. Replaces original 2-piece oil grooved. Shipping weight 10 oz. . . . 17c

(F) **61 A 3289**—**Cam** for 1928-34 A-AA, B-BB Fords. Wt. 2 oz. . . . 32c

Rebuilt Distributors

New parts where needed, including body, shaft, cam, breaker, and base plate with new points. *Sold on same two exchange plans as generators.* See information on page at left. Cracked bodies not accepted for exchange. Art. Nos. marked "M261" mailed separately From Factory in Chicago, usually in 11 extra days.

(L) **Ford A-AA, B.** Wt. 2 lbs. 8 oz.
61 A 5346—A-AA, 1928-31 Exch. Price $1.65; Full Price . . . $2.35
61 A 5342—B, 46, 1932-34 Exch. Price . . . $2.45; Full Price . . . $3.15

(M) **Ford V-8.** Ship. wt. 4 lbs.
61 A 5349—1932-36 (Ex. Model 68); 3 hole coil mounting.
Exch. Price $1.65; Full Price . . . $5.45
61 A 5347—1936 Model 68; 2 hole coil mounting.
Exch. Price $1.65; Full Price . . . $6.45
61A5348—1937-41; Mercury 1939-41. Exch. Price $1.65; Full Price . . . $6.45

(N) **Chevrolet.** Ship. wt. 4 lbs.
*M261 **A 5340**—Chevrolet 1929-40
Exch. Price $2.85; Full Price . . . $3.85

Buick, Olds, Pontiac. Wt. 6 lbs.
*M261 **A 5341**—Buick 1934-40. Exch. Price $4.85; Full Price . . . $6.85
*M261 **A 5343**—Olds. 1928-39. Exch. Price $4.85; Full Price . . . $6.85
*M261 **A 5344**—Pontiac 1929-40. Exch. Price $4.85; Full Price . . . $6.85
*State make, year, model of car.

16,000 Turns $1.35 And Up

- Locking Type
- 2 to 7 Insulation Layers Between Windings

Balanced Primary and Secondary. Use present cable, switch, keys. Ship. wt. 2 lbs. 4 oz.

20,000 Turns $2.15

- Locking Type
- 3 to 7 Insulation Layers
- Heavy Duty Type.

Faster starts, smoother performance. Extra layers of insulation. Ship. wt. 2 lbs. 4 oz.

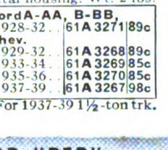
Only for Cars Below	16,000 Turns		20,000 Turns	
CHEVROLET 1933-34 1935-40	61 A 7161	$1.35	61 A 7177	$2.15
CHRYSLER 6, 65, 66, 1929-30	61 A 7159	1.55		
1930-31 (Except 66)	61 A 7152	1.55		
1932	61 A 7153	1.55		
1933-41	61 A 7158	1.55		
DODGE 1930 (ex. DA)	61 A 7159	1.55	61 A 7177	2.15
1930-32 6, Taxi	61 A 7153	1.55		
1931	61 A 7152	1.55		
1932	61 A 7153	1.55		
1933-41	61 A 7158	1.55		
DE SOTO 1930-31	61 A 7159	1.55	61 A 7177	2.15
1932-6 cyl	61 A 7153	1.55		
1933-41	61 A 7158	1.55		
OLDS, 1927-31	61 A 7159	1.55	61 A 7177	2.15
1932-34 6 & 8 cyl	61 A 7152	1.55		
1935-41 All	61 A 7158	1.55		
PLYMOUTH 1929 U	61 A 7159	1.55	61 A 7177	2.15
1930-31	61 A 7152	1.55		
1933-41	61 A 7158	1.55		
PONTIAC 1930-31	61 A 7159	1.55	61 A 7177	2.15
1932-34	61 A 7153	1.55		
1935-41	61 A 7158	1.55		
TERRAPLANE 1935-41	61 A 7159	1.55	61 A 7177	2.15

12,500 Turns 79c

- 2 to 5 Insulation Layers in Windings.

61 A 7165—6-volt Coil for Ford A, Chev. 1929-32 and others. Not for Ford V-8 or cars with locking type coil. Wt. 1 lb. 12 oz. 79c

61 A 7167—For Chev. 1923-28. With condenser. Wt. 2 lbs. 4 oz. . . . $1.29



Ignition Lock Switch With Cable—2 Keys

Fit Cars and Trucks except 61 A 3267, for pass. cars only. With wire terminal, fittings, flexible metal housing. Wt. 2 lbs.

Ford A-AA, B-BB, 1928-32	61A 3271	89c
Chev. 1929-32	61A 3268	89c
1933-34	61A 3269	85c
*1935-36	61A 3270	85c
1937-39	61A 3267	98c

*For 1937-39 1½-ton trk.

15,000 Turns 98c

- 2 to 7 Insulation Layers between windings.
- 20% Oversize.
- 6-volt for Ford A, Chev. and others
- Sealed Metal Case.

For 4, 6, 8 cyl. cars not equipped with locking-type ignition coil. For 1923-28 Chev. order 61A7167 at left. Balanced windings between primary and secondary for greater voltage output. Inside waterproofed. Layer built insulation between wires. Bracket for side or base mounting. Shipping weight 2 lbs.

61 A 7157 . . . . . 98c

20,000 Turns $1.98

- 3 to 10 Insulation Layers Between Windings—Resists Shorting.
- 60% Oversize.
- 6-volt type for Ford A, Chevrolet, Others.
- Superior to Original.
- Sealed Metal Case.

Husky Air Cooled, super power Ignition Coil for 4, 6, 8, and 12 cylinder cars not equipped with locking type ignition coil. For 1923-28 Chev. order 61 A 7167 at left. Built especially for high compression motors. Gives hotter, faster spark for quick starts. Balanced windings between primary and secondary. Heavier gauge copper wire in secondary for maximum voltage output. Bracket for side mounting. Shipping weight 2 lbs. 4 oz.

61 A 7170—Each . . . $1.98

Ignition Coil for Ford V-8



Moistureproof Bakelite case. With Condenser. Ship. wt. 2 lbs. 4 oz.
61 A 7164—1932 to early 1936 (3 hole mounting type) $1.69
61 A 7162—Ford 1937-41, Mercury 1939-41 . . . . . $1.85



Generator Brushes

Replace worn generator brushes now. Wards Brushes match original in quality and performance. Restore power charging efficiency. Fit only as listed. Ship. wt. 3 oz.

61 A 3196—**Ford T-TT, converted T Generator.** Set of 3 . . . 13c

61 A 3197—**For Ford A-AA, B-BB**, 1929-33 and V-8, 1932-33. Not for 1928-29 Ford Powerhouse type or Converted TA generator. Set of 3 . . . 9c

61 A 3199—**For Ford V-8**, 1934-38. 1939 Model 60. Set of 3 . . . 9c

61 A 3198—**For Chev.** 1928-33; 1934-36. Std. and 4o1 A 5756 Generator; **Chrys.** 1929, 1930, 70, 77, 80; **DeSoto** 1928-29; **Plym.** 1928-30; **Pontiac** 1926-33; **Olds.** 1928-33. Set of 3 . . . 9c

61 A 3117—**For Chev.** 1934-38 (Mast.); 1939 All; **Chrysler** 1930-36; **DeSoto** 6, 8, 1930-36; **Dodge** 1930-33 (1930 Delco Remy generator); 1935-39 DU, DV, D2, D4, D6, D9, D12; **Olds.** 1934-39; **Plym.** 1930-33, 1934 PE, 1935-39 PJ, P1, P2, P3, P5, P7; **Pontiac** 1934-39. **State make, year, model of car.** Set of 3 . . . 20c

Replace Faulty Ignition Parts Now—Save 25% to 75% on Manufacturer's List Prices for Best Quality

Automotive Engineers' survey shows that 34% of car trouble is caused by faulty ignition. It should be checked at least once a year. Ship. wts.: Contact Points, set 4 oz.; Condensers 5 oz.; Rotors 2 to 12 oz., Caps 4 to 12 ounces.

Sold Only for Cars Listed	(A) Points Art. No.	Price	(B) Condensers Art. No.	Price	(C-D) Rotors Art. No.	Price	(E) Caps Art. No.	Price
BUICK, 1929-30 Series 40	61 A 5455	23c	61 A 5490	19c	61 A 5472	7c	61 A 5463	39c
CHEVROLET, 1927-28	61 A 5450	23c			61 A 5470	7c	61 A 5460	27c
1929-32, 1933-34 Std.	61 A 5450	23c	61 A 5490	19c	61 A 5470	7c	61 A 5461	25c
1933-35 Master, 1935 Std.	61 A 5455	23c	61 A 5490	19c	61 A 5472	7c	61 A 5463	39c
1936-40	61 A 5455	23c	61 A 5491	19c	61 A 5472	7c	61 A 5463	39c
CHRYSLER, 1928-30, 62, 65,66, 70, 1931-32 6 cyl	61 A 5450	23c	61 A 5491	19c	61 A 5470	7c	61 A 5461	25c
1933 CO 6	61 A 5456	35c	61 A 5490	19c	61 A 5472	7c	61 A 5463	39c
1934 6 and 8 cyl			61 A 5490	19c				
1934 CA 6	61 A 5455	23c	61 A 5490	19c	61 A 5472	7c	61 A 5463	39c
1935-38 6 and 8 cyl	61 A 5372	35c						
1935-41 6 cyl			61 A 5488	22c	61 A 5477	15c	61 A 5497	56c
DE SOTO, 1935-38	61 A 5372	35c						
1935-41			61 A 5488	22c	61 A 5477	15c	61 A 5497	56c
1934 6 cyl			61 A 5490	19c	61 A 5472	7c	61 A 5463	39c
DODGE, 1931-32 DH, DL	61 A 5450	23c	61 A 5491	19c	61 A 5470	7c	61 A 5461	25c
1933 D P Master, 1934	61 A 5456	35c	61 A 5490	19c	61 A 5472	7c	61 A 5463	39c
1935-38	61 A 5372	35c	61 A 5488	22c	61 A 5477	15c	61 A 5497	56c
1939-41			61 A 5488	22c	61 A 5477	15c	61 A 5497	56c
FORD, 1928-31 A-AA	61 A 5452	18c	61 A 5485	15c			FOR FORDS	
1928-33 A-AA, B					61 A 5474	5c	See Above At Left	

Sold Only for Cars Listed	(A) Points Art. No.	Price	(B) Condensers Art. No.	Price	(C-D) Rotors Art. No.	Price	(E) Caps Art. No.	Price
FORD (Continued) 1932-35, & early 1936 V-8, 18-40-48-50-51			61 A 5486	15c	61 A 5475	40c	FOR FORDS See Above At Left	
1934-35, Early 1936 V-8	61 A 5454	39c						
Late 1936-41 V-8	61 A 5373	66c						
1937-41 V-8, 60, 85 H.P.	61 A 5373	66c	61 A 5484	19c				
OLDS, 1928-35, 6 cyl	61 A 5450	23c	61 A 5491	19c	61 A 5470	7c	61 A 5461	25c
1933-38, 8 cyl					61 A 5476	15c	61 A 5496	75c
1939, 8 cyl			61 A 5491	19c				
1936-41 6 cyl			61 A 5491	19c	61 A 5472	7c	61 A 5463	39c
PLYMOUTH, 1928-32	61 A 5450	23c						
1929-32	61 A 5450	23c	61 A 5491	19c	61 A 5470	7c	61 A 5460	27c
1933 PD, 1934 PE	61 A 5456	35c	61 A 5490	19c	61 A 5472	7c	61 A 5463	39c
1933 PC, 1934 PF	61 A 5457	35c	61 A 5491	19c	61 A 5470	7c	61 A 5461	25c
1935, 38	61 A 5372	35c	61 A 5488	22c	61 A 5477	15c	61 A 5497	56c
1939-41			61 A 5488	22c	61 A 5477	15c	61 A 5497	56c
PONTIAC, 1928-32, 6 cyl.	61 A 5450	23c	61 A 5491	19c	61 A 5470	7c	61 A 5461	25c
1932-33, 8 cyl			61 A 5490	19c	61 A 5476	15c	61 A 5496	75c
1934-39, 6 cyl			61 A 5491	19c				
1935-36, 6 cyl	61 A 5459	35c			61 A 5472	7c	61 A 5463	39c
1937-39, 6 cyl					61 A 5472	7c	61 A 5463	39c
1934-39, 8 cyl			61 A 5491	19c	61 A 5476	15c	61 A 5496	75c

WARDS STANDARD QUALITY CONTACT POINTS

61 A 5400—For Chev. 1927-42, 1933-34 Std.; Chrysler 1928-30, 52, 62, 65, 66, 70, 1931-32, 6 cyl.; Dodge 1931-32 DH, DL; Olds. 1928-34, 6 cyl.; Plym., Pont. 6, 1928-32, . . . 13c

61 A 5401—For Buick 1929-30, ex. Ser. 50-60; Chevrolet 1933-35 Master; 1935 Std., 1936-40; Chrysler 1934 CA 6. . . 13c; **61A5403**—For Ford 1928-31 A-AA 10c



Ignition and Lighting Wires

All wire pictured actual size

(H) **Single Braided Primary Wire.** Stranded. Heavy rubber and braided cover. 16 gauge is same quality as equipment on popular cars. For lighting, heaters, fog lights, etc., and inside wiring. 14 gauge is for coil to distributor lead and vibrator horns. Better for all 16 gauge uses. Use 10 gauge for trumpet horns, generator to ammeter. 8 gauge is for same use as 10 gauge but for trucks. Use 10 and 8-ga. for generator, starter, etc., on passenger cars, trucks, buses.

Ga.	Wt. 10 Ft.	Art. No.	Per Ft.	100 Ft.
16	4 oz.	661 A 7054	2c	$1.15
14	6 oz.	661 A 7058	2½c	1.75
10	8 oz.	661 A 7056	3½c	2.75
8	11 oz.	661 A 7055	4½c	3.50

(J) **661 A 7057**—**Duplex Primary Wire.** Like above except two 16-ga. For light system, heater, etc. Two conductor circuit.
Ship. wt. 10 ft. 10 oz. Per ft. 3½c
50-ft. Spool. Ship. wt. 2 lbs. 6 oz. . . $1.35

Weatherproofed Primary Cable. Same use as 661 A 7058 but for outside wiring.

(K) **661 A 7068**—**Single Conductor Type.** Ship. wt. 10 ft., 6 oz. Per ft. 3½c
100-ft. Spool $2.85

(L) **661 A 7069**—**Double Conductor Type.** Wt. 10 ft., 10 oz. Per ft. . . 4½c
100-ft. Spool $3.85

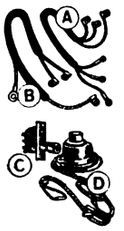
(F) **661 A 7052**—**16 ga. Single Wire, Armored Cable.** For lights, heaters, etc. Ship. wt. 10 ft., 4 oz. Per ft. . . . 2½c
100-ft. Spool $1.69

(G) **Spark Plug Wire**—16-ga. Stranded copper wire. Rubber, braided cotton lacquered. Rubber insulation.
661 A 7059—Best Quality. Ship. wt. 10 ft., 10 oz. Per ft. 5½c; 100-ft. Spool. $4.00

Wiring Assemblies for Head and Tail Lights

For Ford A 1928-31 Pass. cars only. Connects to tail light, stop light and stop light switch, horn headlights and generator lead. Fit 1, 2 bulb lights. Assembled to switch plate. Ship. wt. 1 lb. 8 oz. (NOTE) If used on trucks, order 61 A 7192 tail light extension wire below (Not pictured). Instructions.
61 A 3207—18 gauge. Standard weight. Set 59c
61 A 7196—16 gauge. Heavy weight. Set 93c
61 A 7193—Same as 61 A 7196 but with housing and bail. Assembled ready for easy installation. Set $1.25
61 A 7192—Tail Light Extension Assembly adapts 61 A 3207 and 61 A 7196, 7193, 7194 wires to fit Ford Trucks 1928-31, and 1933-34. Ship. wt. 4 oz. 19c

(N) **61 A 7184**—**For Ford V-8 1933-36 Pass.** Complete wiring assembly to replace your old wiring leads to the tail, stop, head, and cowl lights, to horns and to gas gauge. Fits 2 bulb systems. With housing bail. Wires assembled to switch plate. 16 gauge wire. Ship. wt. 1 lb. 8 oz. Set $1.45
61 A 7191—**For Ford V-8 1937 Pass.**—16-Ga. Headlight assembly wired to switch plate with housing bail. Replaces leads to head, tail, stop light; horn, generator. Wt. 1 lb. 4 oz. . . $1.29
61 A 7190—**For Ford V-8 1937-38 Pass.** Stop and taillight assembly including wire to gas gauge. Ship. wt. 2 lbs. 59c
61 A 7189—**For Ford V-8 and Mercury 1938-39 Pass.** Headlight assembly attached to switch plate. Housing and bail included. Ship. wt. 2 lbs. $2.15



(M) **For Chevrolet**—Ship. wt. 2 lbs. 4 oz.
61 A 5526—Chev. 1929-30 . . . . . $2.85
61 A 5514—Chev. 1933-36. Set 2.95

Cowl Assembly, Ford A-AA 1928-31
(A) **61 A 7194**—14 gauge. Heavy weight. Ship. wt. 3 oz. 19c

Terminal Block to Cut-out Assembly, Ford A-AA 1928-31
(B) **61 A 7195**—12 gauge. Ship. wt. 4 oz. Set . 22c

Foot Dimmer Switch
(C) **61 A 6824**—Fits all cars originally equipped with dimmer switch. No mounting screws. Ship. wt. 5 oz. 25c

V-8 Foot Dimmer Assembly
(D) For Ford V-8 1933-37. Complete with instructions. No screws needed.
61 A 6823—Ship. wt 14 oz. 79c

Wards Supreme Quality

Spark Plug Wire Ignition Sets

- Best 16-Ga. Copper Wire.
- Specially Stranded, Insulated.
- Long-Life High Heat Lacquer.

Get maximum motor performance. Faulty insulation permits current loss, cuts down spark plug efficiency. Same type sets as used on original equipment of many cars. Meets S. A. E. specifications. Passed 35,000 volt breakdown tests. Heavily insulated with special live and tough rubber compound and purified cotton braid with outer coat of heat-resisting lacquer. Withstands zero weather, grease and oil. Shortproof. Includes all parts: spark plug wire, coil-to-distributor wire. Bakelite distributor nipples, terminal clips. Ship. wt. set 1 lb. 8 oz.

Only For Cars Listed	Art. No.	Set
Chev. 1929-39 6 Cyl	61 A 7064	38c
Ford V-8, 1932-36—No distributor nipples	61 A 7062	73c
Ford V-8, 1937-40 Mercury 1939-41 (No Distributor nipples	61 A 7050	75c
Plymouth, 6-cyl. All 1933-38	61 A 7065	69c
Dodge, 1930-38, 6 cyl	61 A 7065	69c
For Others—See Terminals Above —Not for Nash Twin Ignition		
4cyl. (except Ford Chrysler, Plymouth). 6-cyl. with "1" terminal	61 A 7066	41c
6-cyl. with "2" or "3" terminal	61 A 7065	69c
8-cyl. with "1" terminal	61 A 7061	69c
	61 A 7067	89c

Coil Units for Ford T-TT, Fordson

(P) Duplicates original Tungsten points. Tempered steel vibrator springs. Factory tested.
61 A 2138—Ship. wt. each, 1 lb. 2 oz. Each $1.15

Coil Points for Ford T-TT, Fordson

(R) Heavy Tungsten contact points.
61 A 2166—Shipping weight 2 oz. Pair 6c
61 A 2170—Shipping weight 4 oz. 4 Pairs 22c

Timer for Ford T-TT Only

(S) Duplicates original 2 piece case, steel and bakelite—Patented fiber raceways guaranteed to wear smooth—won't develop ridges. Durable roller-contact type. One-piece steel segments. Hardened, ground roller rotates on bushing.
61 A 2433—Shipping weight 11 ounces. Each 29c

New Day Timer for Ford T-TT, Fordson

(T) Bakelite body. Extra heavy construction. ⅛ in. thick copper insert contacts. Heavy stamped steel, plated brush holder. Solid copper-bronze brush. No oiling needed.
61 A 2158—Shipping weight 8 ounces. Each 95c

Turner Long Life Timer for Ford T-TT

(V) Complete with Housing Cable. Famous Turner 2-in-1 Timer with complete wiring enclosed in metal conduit. Leads fitted with terminals. Instructions included.
61 A 2157—Shipping weight 1 lb. 4 oz. Each $1.69

Wards Auto Wiring Sets—For Ford T-TT

(U) Complete with terminals. Copper wires. Heavily insulated. Average shipping weight Set, 14 oz.
61 A 2140—*Lighting Wires, 1926-27. Set 49c
61 A 2136—*Timer Wires, 1 Generator Wire, 2 Lighting Wire leads (starter type) 1919-25 . . . . . 32c
61 A 7199—*Timer Wire for Ford 1926-27 . . . . . 17c

Spark Plug Wire Sets for Ford T-TT

(W) Stands up under loads up to 45,000 volts—requirements for most cars 12,000 volts. Set of 4 with terminals. Wt. 7 oz.
61 A 2110—*For 1909-25 models. Per set 12c
61 A 2137—*For 1926-27 models. Per set 12c

***HOW TO ORDER. Check location of coil box . . . if coil box is on dash, it is a 1909-25 model . . . if on engine block, it is a 1926-27 model.**

Ammeter for Ford T and A



61 A 2104—Exact replacement of original. Ship. wt. 5 oz. . . . 35c

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Horns, Lights



SAFETY FIRST WITH GOOD LIGHTS

60% of Auto Fatalities occur at night due chiefly to weak light from old headlight bulbs. Replace old blackened bulbs now with new live bulbs. Increase visibility, safety—reduce eye strain.

The kind used as standard equipment by most car makers. Built for brighter, longer life—inspected 480 times during manufacture. Accurately centered filaments direct full light on the road. *Postpaid.* (Bulbs marked (†) in listing below are 12-Volt; all others are 6-8-Volt.)

How to Order

Check Mfr's. Number of present bulb. Find that number under Mfr. No. column at right, order by Article Number. **State Make, Year, Model of Car.**

Bulb Box

Metal—for carrying extra bulbs. Holds 3 bulbs—1 headlight, 2 instrument panel, tail, stop or dome bulbs.

61 A 8232—Ship. wt. 6 oz. Box only (No Bulbs). Each..**4c**

(A) Headlight Bulbs With Bayonet Type Base

Mfr. No.	C. P.	Wards Art. No.	Ea.	2 For
1000	32-32	61 A 8216	15c	28c
1110	21-21	61 A 8206	15c	28c
1116	32-21	61 A 8211	15c	28c
1129	21	61 A 8208	13c	25c
1133	32	61 A 8214	15c	28c
†1141	21	61 A 8209	20c	38c
1158	21-3	61 A 8212	15c	28c
1183	50	61 A 8207	19c	36c
1188	50-32	61 A 8221	25c	48c

(B) Prefocused Headlight Bulbs for Most 1935-1939 Cars

2320	32-21	61 A 8213	20c	....
2330	32-32	61 A 8202	20c	....
2331	32-32	61 A 8226	20c	....
2530	50-32	61 A 8222	35c	65c
2531	50-32	61 A 8234	35c	....

(D) For Fender Guides

40, 46	...	61 A 8224	6c	....

(C) For Tail and Stoplights, Dome, Panel, Illuminated Switches

51	1	61 A 8215	5c	....
55	1½	61 A 8217	5c	....
63	3	61 A 8200	5c	....
64	3	61 A 8201	9c	....
†67	3	61 A 8203	9c	....
81	6	61 A 8204	9c	....
87	15	61 A 8205	13c	....
1154	21-3	61 A 8230	17c	....
1158	21-3	61 A 8212	15c	28c

For Fog Lights and Spot Lights

(A) 1130	21	61 A 8231	15c	....
(A) 1133	32	61 A 8214	15c	28c
(B) 1323	32	61 A 8228	19c	....
(B) 1007	32	61 A 8210	19c	....
(B) 1009	50	61 A 8227	25c	....
(A) 1183	50	61 A 8207	19c	36c
(B) 1215s	32	61 A 8237	30c	....
(B) 1209s	32	61 A 8238	30c	....



Single Trumpet $1.45 **Twin Trumpet $2.35**

Good, low priced trumpet horns. Have a sure, loud blast. Single horn recommended for city use, twin horn for city or highway. Weatherproof power unit gives sure protection against snow and rain—always works efficiently. Bracket fits on dash or tie rod. Fits all cars. Blue luster lacquer finish. Wire and instructions included.

61 A 3382—Single. Ship. wt. 4 lbs.....**$1.45**

561 A 3327—Twin with built-in relay to increase the blast. Ship. wt. 9 lbs.....**$2.35**

Twin Trumpet Electric Horn $3.29

A powerful Twin Trumpet Blast Horn that clears your way on the busiest highway. One built-in relay brings full power direct from the battery for loudest blast—give you maximum twin tone quality. Weatherproof power unit—protection against snow or rain. Blue luster lacquer finish. Wire and instructions included. Bracket fits on dash or tie rod. Fits all cars. Ship. wt. 10 lbs.

561 A 3388.....**$3.29**

Manual Operated Yodeler Horn. $4

Sounds a twin blast by p ing control lever button sound alternates by mo lever from side to side. trol lever mounts on ste column making it eas reach. High pitched penetrates far down Weatherproof power Fits all cars. Instruct and wire. Ship. wt. 8 l

561 A 3380.....



YODELER

For any twin horns. Makes your horn yodel from regular horn button—sound from each horn alternates. Easy to attach. Shipping wt. 1 lb. 12 oz.

61 A 3395....**$1.98**



ELECTRIC HORN RELAY

Replace worn Horn Relays and restore original loud volume to your horn. For either single or twin electric auto horns. Complete with instructions for installing. Shipping weight 9 oz.

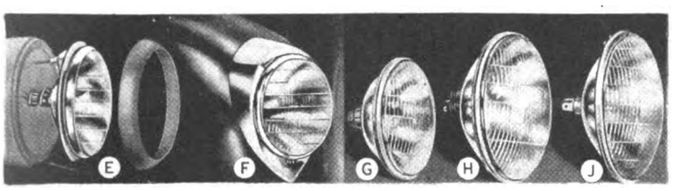
61 A 5664.....**35c**



HORN BUTT

Fits steering umn, steer wheel spoke dash. Bake button—nic plated me parts. Ship. oz.

61 A 869....



Sealed Beam Change-over Units

For cars not originally equipped with Sealed Beam lighting. Built-in parking lights included in all. Set includes 2 Sealed Beam units, 29 in. wire, instructions and fittings. Approved in all states except N.J.; N.H.; Conn.; Mass.; Maine. Aver. wt. 5 lbs. 8 oz.

Ⓔ **61 A 6426**—For Chev. 1932–35; Ford 1930–34; Plym. 1933–34 with rim PF, PG; Pontiac 1932–33; Chev. truck 1933–36. Set..**$4.79**

Ⓔ **61 A 6427**—For Buick 1935–36; Chev. 1936; Olds. 1934–35; Pontiac 1934–37; Chev. Trk. 1937–40. Set.....**$4.35**

Ⓔ **61 A 6428**—For Chry., Dodge, DeSoto, Airstream 1936, Plym. 1936–37. Set....**$4.95**

61 A 6429—For Chrysler, Dodge, DeSoto, Airstream 1935, 1937; Terraplane 1935; Plymouth 1935, 1938. (Not pictured.) Set.....**$4.95**

Ⓕ **61 A 6430**—For all Ford 1938 and Ford Std. 1939 only. Set.....**$7.35**

Ⓔ **61 A 6431**—For Ford 1935–36; Ford Truck 1936–40. Set.....**$4.79**

Ⓔ **61 A 6432**—For Buick 1937–38; Chev. 1938; Olds. 1937. Set.....**$4.69**

Ⓔ **61 A 6433**—For Buick, Chev. 1939; Olds. 1936, 1938–39; Pontiac 1938–39. Set..**$4.35**

Ⓔ **61 A 6434**—For Chev. 1937. Set.... **4.69**

Ⓔ **61 A 6435**—For Chrysler, Dodge and De Soto 1938. (Not pictured). Set.....**$4.95**

Ⓕ **61 A 6436**—For Ford 1937. Set.... **7.35**

Ⓕ **61 A 6447**—For Ford DeLuxe 1939 only, also Mercury 1939. Set.....**$7.35**

61 A 6448—For Plymouth 1939. Set.... **7.35**

M261 A 6449—For all other trucks—6 volt only. **State Make, Year and Model also Diam.** of lens opening. **Shipped from** factory in Cleveland, O. in 5 extra days. Set...**$4.75**

Sealed Beam Headlight Units

For 1940-41 Cars: All-glass and composite type Sealed Beam Units are interchangeable.

Ⓗ **61 A 8233—All-Glass Hermetically Sealed, G.E. Mazda No. 4030.** Dirt, moisture proof. Reflecting surface cannot tarnish. No inner bulb to blacken. Retains original light intensity longer. *Postpaid.* Ea.....**89c**

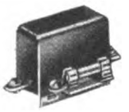
Ⓙ **61 A 6305—Composite Type.** Metal back sealed to glass lens. Dirt, moisture proof. Equipment on some cars. *Postpaid.* Each.**75c**

Genuine G. E. Glaseal Units for Auxiliary Lamps. Fits all lamps equipped with glaseal units. *Shipped Postpaid.*

Ⓖ **61 A 8235—For Driving Lamp.** G. E. 4010 Glaseal Unit. Clear. Fits Wards Lamp 61 A 6314. Each.....**89c**

61 A 8236—For Passing Lamp. G. E. 4011 Glaseal Unit. Clear. Fits Wards Lamp 61 A 6315. Each.....**89c**

61 A 8239—For Fog Lamp. 4012A Glaseal Unit. Amber. Fits Wards Lamp 61 A 6307. Each.....**$1.19**



Headlight Relay Unit

Make your headlights as bright as new again—more light for safe driving. Takes current direct from Battery to headlights—eliminates current drain caused by old leaking wires, worn switches and poor connections. With fuse. Fits all cars. Easy to install. Ship. wt. 7 oz. Instructions included.

61 A 5667—One relay.....**49c**

61 A 5660—Contains two relays—one for passing and one for driving beam.....**98c**

POWERFUL SPOTLIGHTS Throw Beam Far Ahead!



Spotlight With Rear View Mirror $3.59

Here's a good Spotlight that helps you find road signs, street numbers. Priced at one-half what you'd expect to pay for spotlight alone. Clamps to door edge—no holes to drill. Built-in 3¼ in. non-glare mirror on back of light. Adjustable to any position. Overall diameter of light is 4 inches. Instructions included.

Heavily chrome plated over brass shell. Silver plated reflector. Built-in switch, 32 C.P. No. 1129 Bulb. Wiring system independently fused so that lamp can be wired into ignition system. Bracket cannot be removed when door is closed. With about 35 in. wire. Ship. wt. 2 lbs.

61 A 5156—Each.....**$3.59**

Appleton Spotlights $7.95 5½ in.

Powerful beam illuminates roadway 1500 ft. ahead. Mounts through corner post (drill ½-in. hole). Inside control knob turns lamp head in full 360-degree angle. Finger-tip off-on switch in handle. Silver plated reflector. 32-C.P.—uses no more current than 1 headlight. Light is full chrome plated over brass shell—rust-resisting. Plastic handle. Furnished with bracket for left (driver's) side mounting. Use restricted in N.J. and Oklahoma. With instructions, wire, drilling template for late cars. *Postpaid.*

State Make, Year and Model of Car.

561 A 5150—6-in. Size. *Postpaid*....**$8.95**

561 A 5151—5½-in. Size. *Postpaid*.. **7.95**

For Right Hand Mounting—Same as above except for right hand mounting.

M261 A 5157—6-in. Size. *Postpaid*..**$8.95**

M261 A 5158—5½-in. Size. *Postpaid*. **7.95**

Famous Loraine Light $15.5

$2.50 A MO

- **6½-In. Develops 175,000 Focused Candle Powe**
- **Heavy Chrome Plated Shell.**

Head turns in complete circle locate street markers, road sign Throws beam of light ½ mile.

Accurately machined bronze be eled gears. "Wireless" constructi —no wires running through shaf eliminates wire breakage, short Inside control handle with off- switch. Use restricted in N.J. a Okla. With bulb, instructions, te plate for late cars. *Postpaid.*

State Make, Year, Model of Ca

561 A 5153—With bracket for dri er's side mounting. Cash....**$15.5**

M261 A 5159—Same as above exce right hand mounting. Cash..**$15.5**



Head Lamps $5.69

Ⓚ For Pass. cars, trucks, buses, etc., having ball or cup type mounting. Legal in all states. Black baked enamel with Chrome plated rim and door trim. Silver plated reflector. Two bulbs—3 C.P. for parking, 32–21 C.P. for driving. Overall length 8⅝"; diameter 9 in.

561 A 6445—Ship. wt. 11 lbs. Pair.....**$5.69**

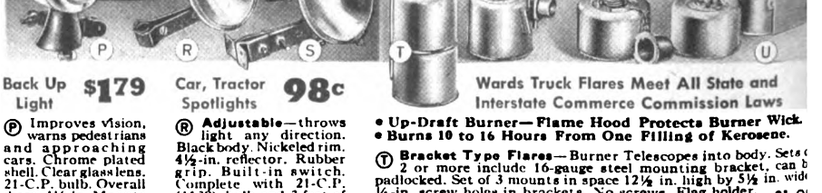
Headlamp Reflectors

Polished silvered surface. Wt. 1 lb. 6 oz.

Sold Only For	Article No.	Ea.
1-Bulb Type		
FORD 1928-31	61 A 2025	49c
1933-34	61 A 2026	57c
2-Bulb Type		
FORD 1928-31	61 A 2021	55c
1933-34	61 A 2023	53c
1935-36 Pass. Models 48 and 68, all trucks 1935-39	61 A 7027	63c
1937-38-39	61 A 7028	49c
CHEV. 1929-30	61 A 7022	57c
1931	61 A 7019	57c
Std. 1932-34	61 A 7024	57c
DE SOTO 6, 1931-32	61 A 7019	57c
1936	61 A 7029	69c
PLYM. U 1931	61 A 7019	57c
PA 1931-32	61 A 7019	57c
PB 1932	61 A 7019	57c
1936 P-1, P-2, 1936 Trucks	61 A 7029	69c
1937 P-3, P-4, 1937 Trucks	61 A 7030	79c

Clear Glass Headlamp Lenses

Ship. Wt. Pair 4 lbs.	Article No.	Ea.	2 For
FORD A-AA 1928-31	61A6741	17c	29c
B-4 V8 1932-34	61A6735	21c	39c
V8 1935 Passenger	61A6736	21c	39c
1935-39 Truck	61A6736	21c	39c
V8 1936	61A6732	23c	43c
V8 1937-38; 1939 Std.	61A6729	26c	49c
V8 1939 DeLuxe	61A6748	28c	53c
CHEV. 1929-30 All	61A6737	23c	43c
1931 Pass. & 1931-32 Trk	61A6738	23c	43c
1932-33 All Pass.; 1934-35 Std. Pass.; 1933-36 Trucks (not 1934 DB)	61A6739	23c	43c
Master 1934-35 Pass.; 1934 DB ½ Ton Truck	61A6734	26c	49c
1936 All Pass.; 1937-39 Truck	61A6733	27c	51c
1937-38 Pass.	61A6731	27c	51c
1939 All	61A6749	31c	59c
CHRYSLER 1935 C6	61A6722	31c	59c
1937-38	61A6723	31c	59c
DESOTO, 1935 SF	61A6722	31c	59c
1937	61A6723	31c	59c
DODGE 1936	61A6724	31c	59c
1937-38	61A6723	31c	59c
MERCURY 1939	61A6748	28c	53c
OLDSMOBILE 1939, All	61A6749	31c	59c
PLYMOUTH 1933	61A6739	23c	43c
1934 PE	61A6721	29c	55c
1935	61A6722	31c	59c
1936-37	61A6724	31c	59c
1938	61A6723	31c	59c
1939	61A6750	44c	85c
PONTIAC 1932-33	61A6739	23c	43c



Back Up Light $1.79

Ⓟ Improves vision, warns pedestrians and approaching cars. Chrome plated shell. Clear glass lens. 21-C.P. bulb. Overall diam. 4½ in. Mounts flat on apron; steel bracket included for mounting on bumper arm. Fits all cars. No switch. Shipping weight 2 lbs.

61 A 6365.....**$1.79**

Replacement Lens

61 A 6366—Ship. wt. 10 oz. Each.....**59c**

Car, Tractor Spotlights 98c

Ⓡ **Adjustable**—throws light any direction. Black body. Nickeled rim. 4½-in. reflector. Rubber grip. Built-in switch. Complete with 21-C.P. (1130) bulb and 3 feet of wire. Bracket and instructions included.

61 A 6811—Ship. wt. 1 lb. 8 oz.....**98c**

Ⓢ **Larger Size**—5⅝ in. diam. 21-C.P. (1130) bulb. 4 ft. wire. Bracket included. Ship. wt. 1 lb. 8 oz.

61 A 6818.....**$1.29**

Wards Truck Flares Meet All State and Interstate Commerce Commission Laws

- **Up-Draft Burner—Flame Hood Protects Burner Wick.**
- **Burns 10 to 16 Hours From One Filling of Kerosene.**

Ⓣ **Bracket Type Flares**—Burner Telescopes into body. Sets of 2 or more include 16-gauge steel mounting bracket, can be padlocked. Set of 3 mounts in space 12½ in. high by 5½ in. wide ¼-in. screw holes in brackets. No screws. Flag holder.

61 A 6715—3 Flares with Bracket. Ship. wt. 7 lbs.....**$1.9**

61 A 6714—2 Flares with Bracket. Ship. wt. 3 lbs.....**1.5**

61 A 6713—1 Replacement Flare only. Ship. wt. 1 lb. 12 oz. **65**

Ⓤ **Box Flares**—Mounts vertically, horizontally. Padlock has end. Steel box. Snuffer cap on chain. Flag holder slot.

61 A 6707—3 Flares in Box. Ship. wt. 8 lbs.....**$2.4**

61 A 6706—2 Flares in Box. Ship. wt. 5 lbs. 4 oz.....**1.7**

61 A 6705—1 Flare (No Box). Ship. wt. 1 lb. 8 oz.....**59**

61 A 6703—Legal Red Cotton Flags—2-pc. 23½ in. steel staff For flares above, or stick in ground. Ship. wt. 6 oz. Ea....**15**



Ⓥ **5-ply Stainless Steel Wiper Blade.**

61 A 4753—8¼ in. long. Ship. wt. 2 oz **9c**

Ⓦ **12-Edge Molded Rubber and Stainless Steel Wiper Blade.**

61 A 4754—7¼ in. long. Ship. wt. 3 oz....**19c**

61 A 4755—8¼ in. long. Ship. wt. 3 oz....**19c**

61 A 4756—9 in. long. Ship. wt. 3 oz.....**19c**

61 A 4759—10 in. long. Ship. wt. 3 oz.....**23c**

Ⓧ **Klean Wipe, Stainless Steel Even Pressure Wiper Blade.**

61 A 4757—8¼ in. long. Ship. wt. 3 oz. . .**29c**

61 A 4758—9 in. long. Ship. wt. 3 oz. . . . **29c**

Ⓑ **Wiper Extension.** For right side of windshield. Attaches to and is operated by present wiper. Will not fit V shape windshields.

61 A 9526—Ship. wt. 5 oz..... ....**39c**

Ⓨ **61 A 9494—Chrome Plated Wiper Arms.** For cars to 1936. Wt. 3 oz.**23c**

Ⓩ **61 A 9495—Stainless Steel Wiper Arm.** Adjustable 7⅜ to 11 in. Fits all replacement blades and cars except those with bent arm. Wt. 3 oz.....**49c**

Ⓐ **61 A 9491—Balanced Pressure Stainless Steel Wiper Arm.** For all cars. Fits all replacement blades. Adjustable 7¾ to 11 in. Ship. wt. 3 oz.....**69c**

Ⓒ **61 A 9500—Rubber-Fabric Wiper Tubing.** 7/32 in. diameter. For 1936 cars and later. Ship. wt. 5 oz. 7 ft. lgth. **27c**

61 A 9501—Same as 9500 but 5/32 in. diameter. For cars previous to 1936. Ship. wt. 5 oz. 7 ft. length.....**27c**

New Trico Vacuum Pump

Keeps windshield wiper running steadily under varying driving conditions; operates practically all cars. Attaches to generator—driven by fan belt. Instructions included. **State Make and Year of Car.**

61 A 9492—Ship. wt. 4 lbs. 10 oz.....**$4.95**

(M) Fuses—Box of 5. Wt. 3 oz.

Amps	Fuse No.	Art. No.	Box
7	3 AG 7	61 A 7171	9c
14	S FE 14	61 A 7179	5c
15	3 AG 15	61 A 7168	6c
20	*S FE 20	61 A 7169	6c
30	S FE 30	61 A 7180	12c

*or 3AG 20



(N) 20-Amp. Circuit Breaker. Replaces ¼x1¼-in. fuse.

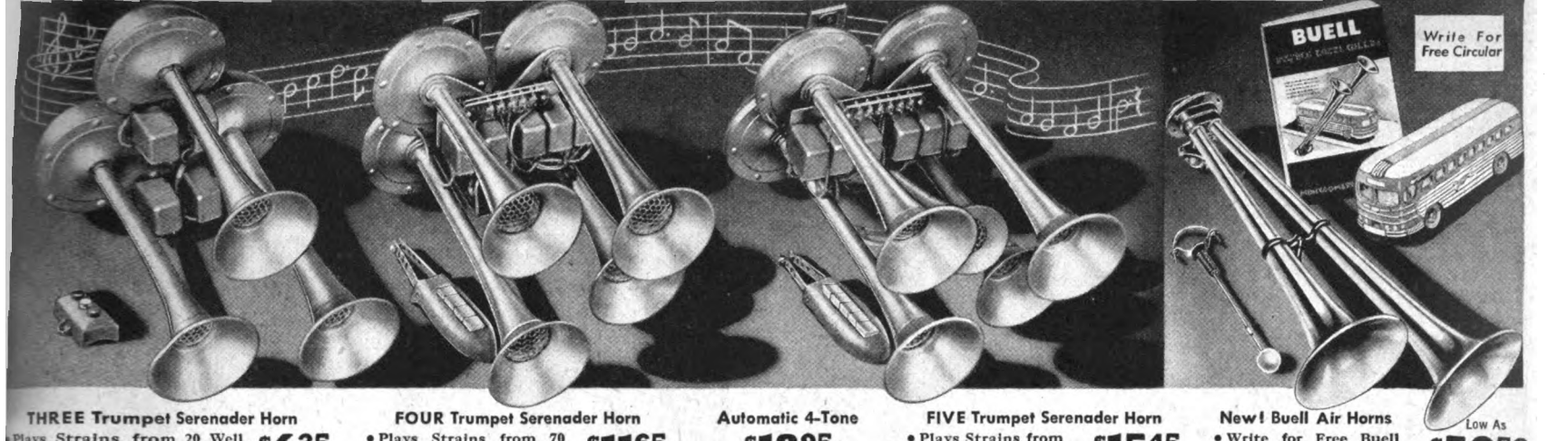
61 A 7182—Wt. 3 oz. Ea. **21c**

Legal Lenses For Wards Fog, Driving Lights

See Manufacturer's Lens Number on glass edge or housing. Amber except when marked. Wt. 1 lb.

Article No.	Lens No.	Fit Wards Lights	Each
61 A 6332	924877	61 6322, 6313 (Combination clear-amber)	87c
61 A 6333	923205	61 6323, 6419, 6424, 6312	59c
61 A 6334	923151	61 6418, 6422, 6423, 6416, 6417, 6324, 6311	49c
61 A 6335	924316	61 6325, 6326, 6310	49c
61 A 6337	923125	61 6415, 6327, 6309	47c
61 A 6364	5937808	61 6301 (comb clear-amber)	59c

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THREE Trumpet Serenader Horn

- Plays Strains from 20 Well Known Melodies.
- Sounds a Twin Trumpet Blast from Regular Car Horn Button.

$6.35

Roll along to the strains of your favorite melodies, played with the control buttons mounted on steering column. Whether it's "Merrily We Roll Along," "The Old Oaken Bucket," or strains from 18 other favorites, you can play any tune using notes F, G, A.

You'll find it's great fun to play, and at the same time you'll discover a new road courtesy extended you by other motorists, who'll move at your cheerful command.

In an emergency you can sound out a two tone blast by tapping your regular horn button. Carefully tuned. Horn mounts on any car. Powerful relays increase intensity of tone volume. Power plants fully enclosed. Fits all cars. Wire, instructions and musical charts included. Add one of these popular horns to your Time Payment Order.

61 A 3360—Ship. wt. 12 lbs..... **$6.35**

FOUR Trumpet Serenader Horn

- Plays Strains from 70 well known Melodies.
- Easy to Play with Keyboard Control.
- Sound a Twin Trumpet Warning from Regular Horn Button.

$11.65 Cash — $2 a Month

Sounds a polite warning to pedestrians—a cheerful salute for your friends—a friendly "move-over" to the fellow who is blocking your way. You can play strains from 70 tunes with the finger keyboard. Keyboard clamps to steering column—curved to fit your fingers. Keys are easy to operate. The horns are carefully tuned in notes of F, G, A and B-Flat, you can play any tunes using these notes.

The fully enclosed power plants are the dynamic air-gap type. Equipped with relays to increase intensity of tone volume. Fits any car. With wire, complete instructions, simple music charts. It is easy to buy this horn by using Wards Time Payment plan. See Inside Back Cover for details.

461 A 3357—Wt. 15 lbs. Cash..... **$11.65**

Automatic 4-Tone

$18.95 Cash — $3 a Month

Same Serenader horn as at left except with automatic player. Plays itself with control button. Plays strains from "Polly Wolly Doodle," "They Cut Down the Old Pine Tree," or "In the Evening by the Moonlight," by inserting one of these musical discs. All three discs included. Hooks up to regular horn button for twin blast. Instructions, wire. It's easy to pay for this automatic 4-tone Horn by using Wards Time Payment Plan. See Inside Back Cover. Ship. wt. 18 lbs.

461A3361—Cash.. **$18.95**

FIVE Trumpet Serenader Horn

- Plays Strains from 100 Melodies.
- Easy to Play With Keyboard Control.
- Hooks to Regular Horn Button for Clear Twin-Blast.

$15.45 Cash — $2.50 a Month

Wards Horn Sensation—a 5-tone Serenader gives you a wide selection of melodies including 11 college tunes and 89 other favorites. Easy to operate with the finger tip keyboard shaped to fit the fingers. Mounts on steering column. Easy-to-follow music charts furnished—you can play any melody using notes of F, G, A, B-Flat and C.

Relay equipped to intensify tone volume. Power plants fully enclosed—dynamic air-gap type which means the horns stay in tune. Fits any car. Bracket arrangement reduces mounting space—fits in same space as 4 Trumpet at left. Complete with wire and installation instructions. Ship. wt. 20 lbs.

461 A 3350—Cash..... **$15.45**

New! Buell Air Horns

- Write for Free Buell Air Horn Circular.

Low As **$50.50** Cash — $5 a Month

Famous Buell Horns—America's loudest, most pleasing toned horns. Made for cars, trucks, boats, or other purposes where powerful blast is needed to clear the way quickly. Standard equipment on Greyhound busses because of its loud blast. Made of brass just like fine musical instruments.

Small air compressor capable of producing from 200 to 250 lbs. of air pressure, is driven off fan belt of motor. Operated by lever attached to steering column. Trumpets are chromium plated. All necessary fittings and instructions for installation and operation included. **STATE Make, Year, Model of Car. Shipped from Factory in Chicago** usually in 14 additional days.

M261 A 3322—17⅜ in. long. *Postpaid*..**$50.50**
M261 A 3323—23⅛ in. long. *Postpaid*.. 64.50
M261 A 3324—27⅛ in. long. *Postpaid*.. 67.50
M261 A 3325—30⅛ in. long. *Postpaid*.. 86.00
M261 A 3326—35¾ in. long. *Postpaid*..104.50



New Glaseal Driving Lights For Safety at Night

$2.69 Each In Pairs

- **6¼-Inch Size—Develops 37,500 C.P. Beam.**

Powerful beam carpets the road with bright light. You simply step on the dimmer switch—bright light goes out, passing light goes on. No glare to passing car but plenty of light to show right side of road and ditch. Recommended in matched pairs for use with regular headlights (can be used singly if desired.) Has nationally advertised Glaseal Lighting Units—reflector and lens are permanently sealed 30-watt unit that dust, dirt and moisture can't penetrate. Gives brighter light longer. Driving light uses replacement light unit 61 A 8235; Passing light 61 A 8236.

Fully chrome plated. Malleable iron rust resisting bracket is adjustable to fit all cars. With wire—switches not included. Instructions. Ship. wt. each 4 lbs.

61 A 6316—Pair (switch 61 A 6924). Wt. 8 lbs..... **$5.38**
61 A 6314—Driving Light (order switch 61 A 6921).. 2.79
61 A 6315—Passing Light (order switch 61 A 6921).. 2.79

61 A 6924—**Two Pole Switch**—necessary for proper installation of a pair of driving and passing lights. With tail-light connection. Non-illuminated. Ship. wt. 4 oz.....35c

$1.05 5-in. Each — **Low Priced Fog Lights** — **$1.87** 6-in. Each In Pairs

- **Ribbed Amber Lenses Reduce Glare—Give Better Vision in Fog, Rain, Snow.**
- **Perfected Reflectors—Give Flat Beam that Spreads Low Across Road.**
- **Wards Fog Lights are Legally Approved in All States (Except 61 A 6309 below).**
- **For Cars With or Without Stone Apron.**
- **Switches not Included. Order Wards 61 A 6921 or 61 A 6909.**
- **Adjustable Brackets for Bumper Arm, Wire and Instructions Included.**

5-in. Overall Diam. Black shell—chrome plated Rim. With 32 C.P. prefocused bulb (1323). Ship. wt. each 3 lbs.

61 A 6309—Ship. wt. 2 lbs. Each..... **$1.05**

6-in. Overall Diam. Fully Chrome plated shell. Steel Bracket. With 32 C.P. prefocused bulb (1323). Ship. wt. each 3 lbs.

61 A 6310—Each.... $1.95; 2 for.... $3.74

Famous Glaseal Fog Light

$2.69 6¼-in. Each In Pairs

- **Famous Glaseal Fog unit—Glass Reflector and Amber Lens are Permanently Sealed 30-Watt Unit.**
- **Amber Lens Gives Maximum Vision.**

This new Glaseal Fog Unit brings greater driving safety to every car owner. By permanently sealing the glass reflector and scientifically ribbed amber lens into one unit, dirt, dust and moisture can't penetrate. Gives brighter light longer.

The 6¼ in. shell is heavy chrome plated. Malleable iron adjustable bracket is rust-resisting—designed to fit all cars. With wire, instructions. Legal in all states. Switch not included—order 61 A 6921 or 61 A 6909 at right. Uses Wards 61 A 8239 replacement unit.

61 A 6307—Ship. wt. 4 lbs. Each..$2.79
Pair—Ship. wt. 8 lbs..... 5.38

Fog-Driving Light

$3.89 Ea.

- **Adjustable-Switch directs Beam Down For Fog—Horizontal for Mist.**

The combination lens of Amber and clear crystal eliminates fog glare and gives greater visibility.

Uses 32 C.P. prefocused bulb (Ward 8202). Has 7 in. heavy Chrome plated shell. Wire and switch included. Legal in all states except Calif. Rust resisting malleable iron brackets fit all cars. Wt. 4 lbs.

61 A 6301—Each.**$3.89**

Deluxe Fog-Driving Light

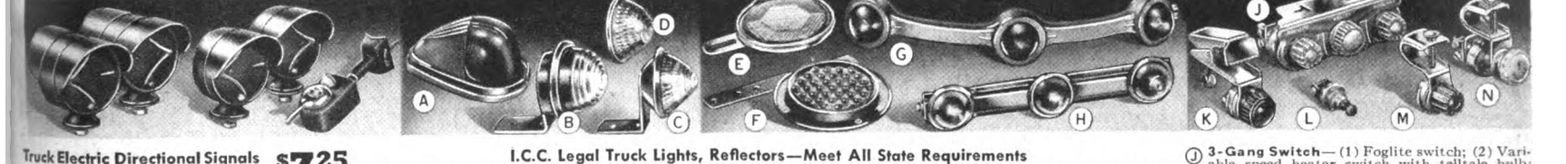
$4.59 Each In Pairs

- **Good Vision in Clear Weather or Fog.**
- **Streamlined Design.**

Upper and lower lens sections are ribbed amber to eliminate fog glare—the center section is clear for distance-beam driving in clear weather.

Shell is chrome plated. Rust-resisting malleable iron adjustable bracket. Fits all cars. Uses 61 A 8210, 32 C.P. prefocused bulb—uses no more current than 1 headlight. Overall width 7⅜ in. Legal in all states. With wire—switch not included. Order 61 A 6921.

61 A 6313—Ship. wt. 4 lbs. Each $4.75; Two for..$9.18



Truck Electric Directional Signals

$7.25 Set

- Adds Safety to Driving.
- Warns Oncoming and Following Cars.
- Meets I.C.C. and State Legal Requirements.

Avoid traffic accidents by installing Wards Directional Signals. Legally approved—meets State and Interstate Commerce Commission requirements. Wards truck signals are easy to install, simple to operate. Set consists of 2 double faced lamps for the front to warn oncoming traffic—2 single faced lamps for rear mounting to warn passing cars. Lamps use No. 1129 bulbs. Set also includes switch box which mounts on steering column—has pilot light to keep you informed of light operation and contains relay, fuse box, fuse. Set complete with about 60 ft. of wire.

561 A 6695—Ship. wt. 12 lbs. Each Set...$7.25
2 or More Sets, Each Set 6.98

I.C.C. Legal Truck Lights, Reflectors—Meet All State Requirements

(A) Clearance Lamp. Glass lens. Size 4½ x 2½ in. Heavy gauge steel. Rubber pad fits curved surface of body or fender. 3 C.P. bulb.
61 A 6890—Red Lens. Ship. wt. 8 oz. Ea...53c
61 A 6891—Amber Lens. Ship. wt. 8 oz. Ea. 53c

(B) Heavy Duty Clearance Light. Black enameled. 2½ in. Glass lens. Steel bracket, welded to body. 3-C.P. bulb. Wired. Wt. 10 oz.
61 A 6867—With Red Lens. 4 for 85c; Ea. 23c
61 A 6868—With Amber Lens. 4 for 85c; Ea. 23c

(C) Regular Clearance Light. 2½ in. Glass lens. No screws. Steel bracket. Black enameled back. 3-C.P. Wt. 8 oz.
61 A 6794—With Red Lens. 4 for 59c; Ea. 16c
61 A 6796—With Amber Lens. 4 for 59c; Ea. 16c

(D) Replacement Lens — For 2½ in. Clearance Lights. **State color:** Red, Amber, Green.
61 A 6781—3 for 13c; Each. Wt. 4 oz.....5c

(E) Truck Reflectors—Flat Type. Glass "Tiger Eye" Tongue mounting. Cadmium plated steel body. Nut and bolt included. **State Red or Amber.**
61 A 6755—3-in. Wt. 8 oz. 2 for.....48c; Each....25c
61 A 6756—4-in. Wt. 12 oz. 2 for.....59c; Each....31c

(F) Button Type Reflectors —Diam. overall 5 in. Mounts flat or use tongue bracket. No screws. Enameled. Throws beam 1,000 ft. **State Red or Amber.** Shipping wt. 12 oz.
61 A 6758—Each.....47c

(H) 3 in. Line Clearance Light. 15-in. 1-piece steel frame. Rust, shock and water proof. 3 C.P. bulbs. No screws. Shipping weight 2 pounds.
61 A 6879—Amber
61 A 6878—Red
2 for $1.29; Each.....67c

(G) Flexible Clearance Lights. Black vulcanized rubber. Can be formed to fit curved or flat surface. Lens throws light straight on or at 90 degrees. Ship. wt. 2 lbs. 4 oz.
61 A 6792—Red. Ea. $1.63
61 A 6793—Amber. Ea. 1.63

(J) 3-Gang Switch— (1) Foglite switch; (2) Variable speed heater switch with telltale bulb; (3) Auxiliary switch. Panel 4½ in. Mounts on dash in holes provided on most cars.
61 A 6915—With screws. Ship. wt. 6 oz..$1.05

(K) Off-On Switch—Mounts on or through dash.
61 A 6903—Illuminated. Ship. wt. 4 oz...32c

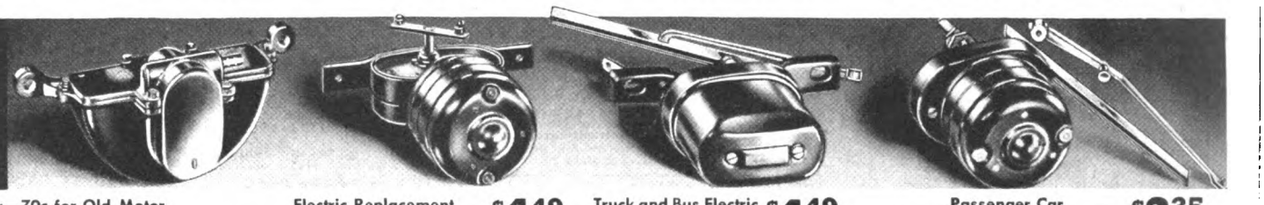
(L) Push-Pull Switch. Bakelite knob, nickel trim, 7/16 in. shank. Mounts through dash.
61 A 6913—Ship. wt. 2 oz.....11c

(N) Fog Light Switch—Legal in all States. Knob lights when lights are on. Has terminal so tail light can be turned on with fog lights when headlights are off. Mounts on or through dash.
61 A 6921—Built-in fuse. Ship. wt. 3 oz.....29c

(M) Low Priced Fog Light Switch. Clamp on nickel plated bracket—plastic knob. Non-illuminated. Without fuse or tail light terminal.
61 A 6909—Ship. wt. 2 oz.....16c

BUY ON CREDIT

Protect the passengers who ride in your car. Replace faulty windshield wiper motors and blades. See inside back cover for time payment information.



Trico Vacuum Wiper Motor—70c for Old Motor

Send old motor *postpaid* with exchange price; or send full price now and get coupon, cashable when old motor is returned. Use old blade, arm mounting bolts. *Postpaid.*

For Cars and Trucks Not Listed at Right

M261 A 4715—No exchange. **State Make, Year, Model No., Body Style.** If car or truck has twin wipers, state if for driver's or Pass. side. *Postpaid*, **Shipped from** Chicago in 5 extra days..... **$4.49**

Closed Cars Only	Article No.	Price	Exch.
Chev. 1927-30..	61A4700	$3.55	$2.85
1931	61A4701	3.65	2.95
1932	M261A4711	3.65	2.95
1933-34; 1935 Std.	M261A4712	3.65	2.95
Ford •1930-31 (Outside)	61A4702	3.65	2.95
1933-34	61A4706	4.25	3.55
1935-36	M261A4710	4.25	3.55
Plymouth 1929-31 All	61A4700	3.55	2.85
1932 PB; 1933 PC, PD; 1934-36 All	61A4705	3.65	2.95

*Electric Wiper Used Originally on Some Models.

Electric Replacement For Trico Vacuum Wipers

$4.49

Smooth, constant operation. No stalling when you step on gas. Speed regulated by a special rheostat switch. For standard 6-volt operation. Fits practically all pass. cars using under-dash vacuum units from 1935 to date except Studebaker and Mercury. Replaces original perfectly. Motor has long-life oil-less bearings. Uses 2 amps. One motor runs twin wiper blades. Same as original single motor type. Complete with switch and installation instructions. Ship. wt. 4 lbs.

61 A 9496.....**$4.49**

Truck and Bus Electric Windshield Wipers

$4.49

For most trucks, busses. Easy to install single hole mounting type. Wiper arm has wide swing for extra wide vision. Powerful, heavy duty wiper motor is equipped with long life oil-less bearings for std. 6-volt operation. With speed control rheostat switch that attaches to dash. Instructions. Wt. 2 lbs. 14 oz.

61 A 9497—With blade and arm for inside mounting **$4.49**
61 A 9498—Same as above but for outside mounting.....**$4.49**

Passenger Car Electric Windshield Wiper

$2.35

6-volt motor. Uses very little current. Enameled case. Rustproof arm. 5-ply chrome plated blade. Use old bolts. Instructions. Wt. 2 lbs. 4 oz.

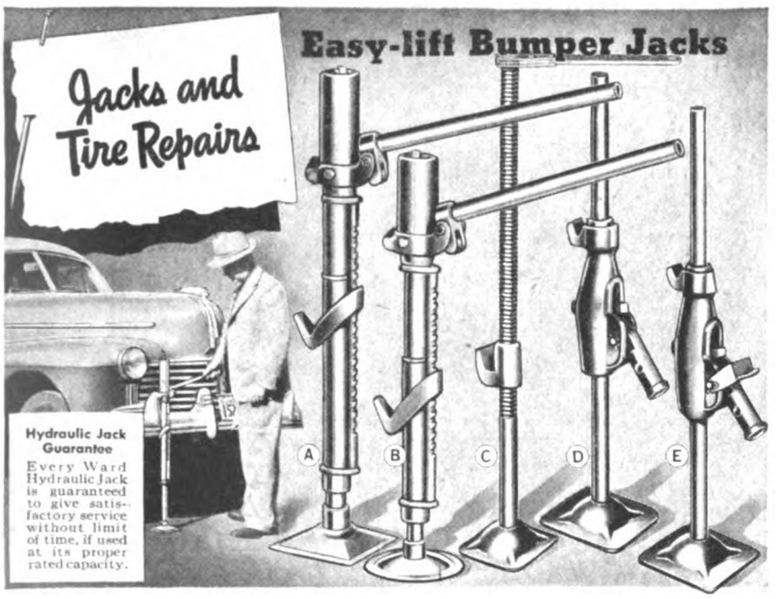
61 A 9471—Ford 1928-30 closed cars equipped with electric wipers. Built-in switch. Price.....**$2.35**

61 A 9472—Outside mounting on vertical opening windshield and Ford A (closed) cars with vacuum wiper. For switch Order 61 A 6913 above.....**$2.35**

61 A 9473—For cars, trucks with swinging windshields except V-8 Fords, Single hole ⅜ in. mounting. Built-in switch.**$2.35**

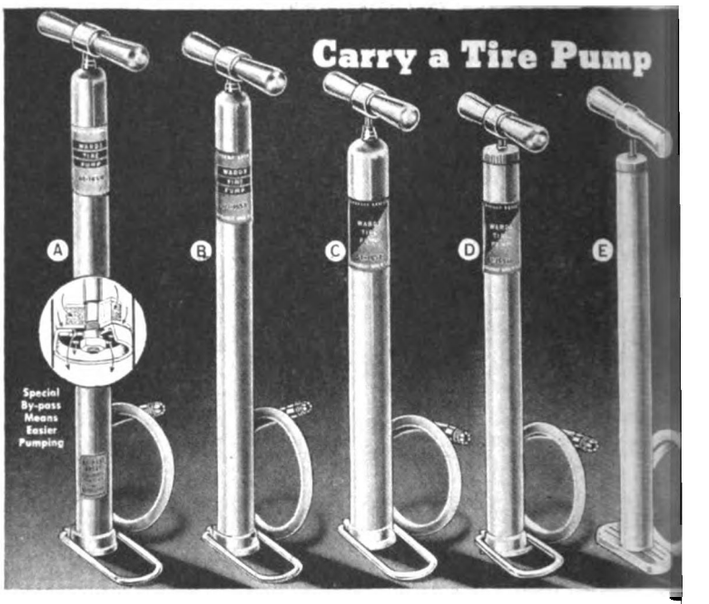
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Jacks and Tire Repairs



Hydraulic Jack Guarantee

Every Ward Hydraulic Jack is guaranteed to give satisfactory service without limit of time, if used at its proper rated capacity.



$3.75 Heavy Duty Model—Lifts Car 18 in. **$3.15** Standard Model—Lifts Car 15 in.

Hydraulic Bumper Jacks

- **Improved Design—Easy Lifting Hydraulic Pump is at TOP of Jack—You Pump it from Standing Position. No Stooping.**
- **For Knee-Action and other Cars.**

Easier to put in position and operate than any other type of jack—see "Which Jack Shall I Buy" below. Bumper hook can be easily moved to height of your bumper and you're set. Heavy malleable iron and steel; full lacquered finish; 13¾ in. handle. Base is removable for storage. Complete with 2 wood wheel blocks.

(A) Heavy Duty Model

$5.95 Value! Heavier, taller than Standard model—for heavy cars. Lifts car 18 in —low of 6 in to a high of 33½ in. Has extra height necessary on uneven road surfaces and for cars with long overhang. ⅝ in. diam. lifting ram, 4½ by 6 in. base. Wt. 14 lbs.
461 A 1686.....**$3.75**

(B) Standard Model

$4.75 Value! Recommended for light and medium weight cars. Lifts a total of 15 in. from a low of 8 inches to a high of 31 inches. Has ¾-in. diameter lifting ram. 3-inch diameter base. Ship. wt. 11 lbs. If car is over 127 in. wheelbase, order jack No. 461 A 1686 at left.
P561 A 1684.....**$3.15**

98c Light Cars **$1.59** 2-Ton Cars **$1.89** 2-Ton Cars

Mechanical Bumper Jacks

(C) Low-Priced Screw-Action Type—Long 11-in. ratchet gives more leverage than ordinary ratchets. Lifts from 8½ to 30 in. V-Shape malleable lifting hook rotates around 1⅛-inch steel shaft. Removable square base for easier storage in car.
561 A 1628—Ship. wt. 7 lbs. 11 oz.....**98c**

Grip-Action Jack with "Controlled-Lowering" Lever

(E) Just stand up, attach to bumper, and operate. Alternating grip-and-release action moves the load up the rod. Special lever on pump regulates lowering speed. Descent may be stopped at any point. Prevents car's slipping dangerously down with a bump. For cars up to 4,000 lbs. Required for cars with knee action—more convenient for any car. Lifts car 19¾ inches—starts at 9½ in., lifts to 31 in. Has 5½-in. square steel removable base and 20-in. steel handle. Complete with 2 wood wheel blocks.
P561 A 1614—Ship. wt. 9 lbs.....**$1.89**

Standard Quality Grip-Action Jack

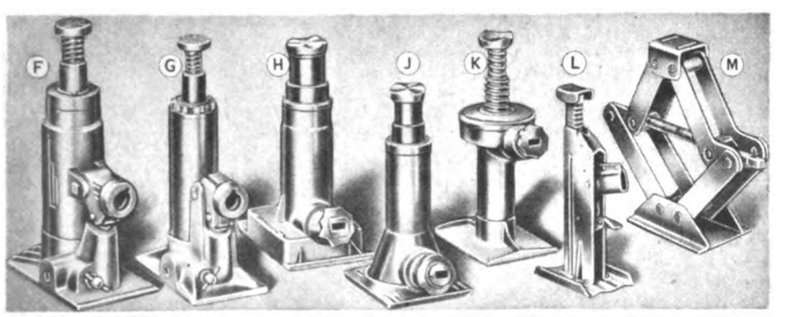
(D) Same as above, but without "controlled-lowering" lever. Lifts from 8½ to 31 in.
561 A 1607—Ship. wt. 11 lbs.....**$1.59**

WHICH JACK SHALL I BUY?

Wards offer Hydraulic Action and Mechanical Action Jacks. Hydraulic Jacks cost more but work 3 to 5 times easier than Mechanical Jacks. They also last longer because there are practically no parts to wear out—they only require adding fluid occasionally. Mechanical Jacks give good service but require more effort to operate for raising car. Both are available in Bumper Lift and Under-the-Axle Style.

Bumper Jacks for All Passenger Cars (not for Trucks). Most convenient for old as well as new cars, because they lift at the bumper—require no stooping or crawling under car to position them. The only type that can be used on knee-action cars or late model cars with skirted fenders and long overhanging bodies where it's practically impossible to position and operate an under-car type jack.

Under-The-Axle-Jacks for Passenger Cars and Trucks. Engineers advise using a Jack with rated capacity of ½ the weight of the car for raising one wheel. (as in changing a tire); ⅜ the weight of the car for raising two wheels at once. Thus for a 3,000 lb. car you should carry a jack of at least 2,000 lbs. rated capacity. Be sure the Jack you order has a minimum height of correct size to go under the axle when your tire is flat and sufficient lift for full clearance to replace inflated tire.



1½ Ton Hydraulic Jacks

Lifts 1½ times rated capacity. 1-piece leakproof malleable iron base. Lifting lever centered for perfect balance—easy to place jack under car. 2-piece 26-in. handle. Lifts from 7 to 12¼ in. —2 in. extension screw gives total height of 14¼ in.

(F) 561 A 1681 — Supreme Quality. Extra heavy construction; larger base, stronger housing than jack below. Wt 10 lbs. **$3.10**

(G) P561 A 1682 — Low Priced Special. Standard weight housing; standard base. Ship. wt. 9 lbs **$2.59**

Wards Powerful Under-the-Axle Mechanical Jacks

All-Enclosed Double Screw Type. Tested at 1½ times capacity. All mechanism enclosed in dustproof sleeves for long life. Load rests directly on base—tilt of load does not bind action. Telescoping tubes protect the screws and guide them. Malleable iron housing and non-tip sled base. Folding handle.

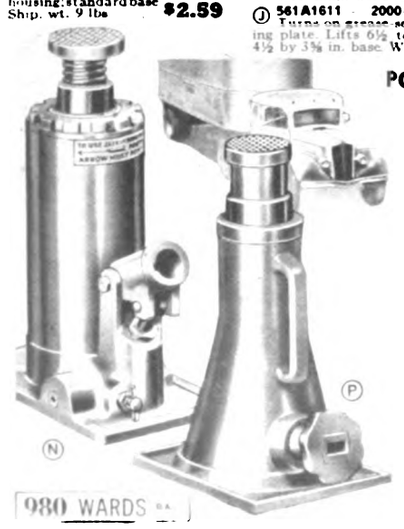
(H) 561A1609 — 3500-Pound Size. Heavy duty ball bearing action jack for cars, light delivery trucks. Easiest mechanical jack to use. Lifts 6 to 13½ in. 5½ by 3½ in. base. Ship. wt. 8 lbs. . . **$1.75**

(J) 561A1611 — 2000-Pound Size. Turns on grease-sealed steel bearing plate. Lifts 6½ to 15 in. 4½ by 3⅝ in. base. Wt. 7 lbs. **$1.35**

(K) Bargain Double Screw Jack —2000-lb. capacity. Lifts 6¾ to 14¼ in.—42¾ in. folding handle. Moving parts packed in grease. Malleable iron base and housing.
P561 A 1639—Wt. 6 lbs... **95c**

(L) Ratchet Type Jack—1500-lb. capacity. For light cars. Pressed steel 12-in. handle. Lifts from 8½ to 13½ in.
61 A 1619—Wt. 5 lbs. **59c**

(M) Scissors Jack—2000-lb. capacity. Position jack with handle—fits under any axle. Large base prevents tipping. Low starting position. Lifts from 4½ to 13 in.
461A1648—Wt. 10 lbs. **$2.85**



POWERFUL JACKS FOR TRUCKS

$2.65 4 Ton Mechanical **$3.59** 2 Ton Hydraulic **$7.95** 5-Ton Hydraulic

- **Guaranteed Without Time Limit, Same as Hydraulic Passenger Car Jacks Above.**

(N) Whether it's a truck tire job or an axle or frame straightening job, Wards Truck Jacks fill every need. Smooth, effortless lifting and lowering—lifts load rapidly, lowers it at slight turn of release valve. Factory tested at 1½ times rated capacity. Built-in Bi-pass valve. Malleable iron base and handle socket. Non-tip sled base. Handle included.

Ton Cap.	Lift In.	Extension	Ht. In with Ext.	Article Number	Wt. Lbs.	Price
2	7	None	16½	461A1673	11	$3.59
3	6¾	2 in.	17¾	461A1674	15	6.15
5	6¼	3 in.	18¼	461A1675	20	7.95
8	6¼	4¾ in.	19¾	461A1683	24	9.65
†12	5¾	3 in.	17¾	461A1677	32	17.45

†With Side Carrying Handle That is Part of Body.

Mechanical Jack—4 Ton Capacity

(P) Both screws turn together—no hand adjusting of center screw. Dustproof sleeves. Tested at 1½ times capacity. Malleable iron body, 5¾ by 4½ in. non-tip sled type base. Lifts from 8½ to 20½ in.
561 A 1615 With 44½ in. folding handle. Ship. wt. 9 pounds..... **$2.65**

$1.39 1½-in. Bi-Pass **$1.15** 1½-in. Supreme **97c** 1¾-in Standard **85c** 1½-in Standard **54c**

Supreme Bi-Pass Pump

- **21½ by 1½ in. Steel Barrel.**
- **32 Cu. In. Air Displacement.**
- **5-Year Service Guarantee.**

(A) Save ½ at Wards on this Bi-Pass type Pump. Plunger allows barrel to fill to maximum capacity—closes on down stroke forcing 3.5% more air into tire. Dill connection quickly slips on valve. Gold finish. 24-in. 5-ply hose. Folding base.
561 A 1654—Ship. wt. 5 lbs.....**$1.39**

Wards Supreme Pump

- **20½ by 1½ in. Steel Barrel.**
- **30.4 Cu. In. Air Displacement.**
- **16% More Capacity Than Standard 20½ by 1½-in. Barrel.**

(B) More air per stroke with no more effort than shorter pumps. Dill valve connection eliminates air loss. Self-oiling plunger for perfect seal. Folding base. Blue finish. 24-in. 3-ply hose.
561 A 1653—Ship. wt. 3 lbs..... **$1.15**

1¾-In. Standard Quality Pump

- **18 by 1¾-In. Steel Barrel.**
- **33.1 Cubic In. Air Displacement.**

(C) More air per stroke than 1½ in barrel requires more effort. Self-oiling pad 24 in. hose. Folding base.
561 A 1652—With Dill connection. Wt. 3 lbs.

1½-In. Standard Quality Pump

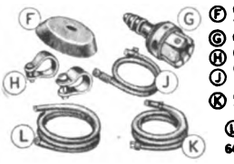
- **18 by 1½-In. Steel Barrel.**
- **26 Cubic In. Air Displacement.**

(D) Iron base. Folding foot stirrup. Dill connection. Red enameled. 24-in. 3-ply hose.
561 A 1651—Ship. wt 2 lbs 8 oz

Wards Economy Pump

- **17½ by 1½-In. Steel Barrel.**
- **25.6 Cubic In. Air Displacement.**

(E) Screw-connection. Black enameled. Bar-reed to stamped steel base. 20-in. 2 ply hose.
561 A 1650—Ship. wt. 2 lbs. 4 oz



(F) 61 A 1772—Pump Leathers. Choice of 1½ and 1¾ in. sizes Stan wanted. Shipping weight 1 oz. Each .....
(G) 61 A 1792—Dill Hose Connection. Fits all pumps above. Wt. 2
(H) 61 A 1773—Hose Clamps 3/16 and ½ in. **State Size.** Wt. 2 oz
(J) 61 A 1787—24-in. Heavy 2-Ply Replacement Hose. Screw-co tion with deflator pin. Shipping weight 3 oz .....
(K) 61 A 1791—36-Inch 5-Ply Rubber Hose. With Dill connec holds valve open. Diam. inside 5/16 in.; outside ½ in. Wt. 6 oz
(L) 661 A 1795—3-Ply Pump Hose By The Foot. Shipping we per ft. Diam. 3/16 in. inside; 5/16 in. outside. Per foot.
661 A 1796—Diameter ¼ in. inside; ½ in. outside. Per foot.





Handy Foot Tire Pump $1.89

- **No Bending—No Backaches—No Sore Hands.**
- **Large 3-Inch Self-Lubricating Piston—Pumps Almost Twice as Much Air Per Stroke As Ordinary Pumps.**

Lets you stand in a comfortable position, and pump up a tire in less time than it would take with an ordinary hand pump. You don't have to take off your coat, or put on gloves; just place your foot on the comfortable non-slip foot pedal and pump. It's as easy as riding a bicycle.

Furnished with 30-in. 2-ply rubber hose, screw-on connection, with deflator and check valve to prevent back pressure. The piston is lubricated to last the life of the pump.

Folds into a small compact unit 15 in. long by 4 in. high, with space in the pump for the hose and tube patch kit. Eliminates the problem of carrying a bulky pump and hose in your car. Works on car, truck and tractor tires.
561 A 1666—Ship. wt. 5 pounds 12 ounces...**$1.89**

Use Your Engine To Pump Up Your Tires

- **Inflates Car, Truck or Tractor Tires to 60 or 70 lbs.—Depending on Condition of Motor. Works on Engine Compression.**
- **Pumps Clean Air—No Fumes Enter Tire**

No sweating—no stooping. Just screw clip to spark plug hole and run engine slowly. Suction operates pump which inflates tire.

HOW TO ORDER: State Make, Year, Model of car, truck or tractor. Also **State Spark Plug Size.** See Spark Plug Page for size chart.
61 A 1683—With 16-ft. hose and pressure gauge (Pictured). *Shipped Postpaid*
61 A 1684—With 12-ft. hose. No gauge. **$2.6**
(Not pictured.) *Shipped Postpaid*



61 A 1685—Extra Element you use pump on cars with size plugs. **State Spark Plug** Size: ½ in.; ⅝ in.; 14 mm. 10 mm. **$1.3**
Shipped Postpaid

(M) Nail Hole Patch—Gum Rubber works way into casing break. Prevents dirt, water from rotting carcass. Wt. 2 oz.
61 A 1427—Each 7c; 2 for 13c

(N) Rubber Tire Flaps. Fit rims to 25-in. Ship. wt. 1 lb. 8 oz.
61 A 1349—Each.....**23c**

(P) Rubber Rim Strips—For drop center rims
61 A 1358—Fits 15 to 16-in. rims. Wt. 4 oz. Each 7c; 5 for....**32c**
61 A 1359—Fits 17 to 21-in. rims. Wt. 3 oz. Each. 7c; 5 for....**30c**

(R) Lace-On Tire Boots.

Wt. Ea.	1 lb. 7 oz.	Ea.	Two
3½-in.	61 A 1246	19c	36c
4 -in.	61 A 1229	28c	52c
4½-in.	61 A 1231	30c	56c
5 -in.	61 A 1233	35c	66c
4 40	61 A 1229	28c	52c
4 50	61 A 1228	28c	52c
4 75	61 A 1230	29c	54c
5 00	61 A 1231	30c	56c
5 25	61 A 1233	35c	66c
5 50	61 A 1237	35c	66c
6 00	61 A 1235	35c	66c

Rubber Cement ¼ Pt.
61 A 1486—Ship. wt. 10 oz. **10c**

Side Wall Patch

(S) 3-Ply Patch. Cement coated. Flap fits under rim—holds patch. 5¼ x 10⅜ in. Wt. 9 oz.
61 A 1355—Each 9c; 3 for ... **25c**

"Stick-Tite" Casing Patches

(T) Flexible fabric coated with cushion rubber prevents chafing. Gum Rubber Plug. Cement coated. Wts. 4, 7 oz.
61 A 1239—About 5½ x 6½ in. Each .....**9c**; 3 for **24c**
61 A 1240—Abt. 7x8½ in. Each .....**13c**; 3 for **36c**

3-Ply Casing Patches

(U) For inside breaks. Cement coated. Rubber plug.

Approx. Size In	Ship. Wt.	Article Number	Ea.	3 for
4 x 5	3 oz	61 A 1325	2c	5c
5½ x 8	6 oz	61 A 1326	4c	10c
7½ x 10	7 oz	61 A 1327	6c	16c
9 x12	13 oz	61 A 1328	8c	22c
10 x15	1 lb 2 oz	61 A 1329	11c	30c

Tire Tread Filler—2 oz. tube 1 by 6 in. Wt. 7 oz.
61 A 1558—Each **10c**
2 for.....**18c**

White Side Wall Coating

Give your car that showroom" appearance. White liquid rubber paint. Stretches 5 times its own length. Won't crack, peel off. Can't harm tire. Self-vulcanizing in 15 minutes. Easy to apply. Use brushes on; directions in both sides of five tires clean tires, use clear low. Wt. 1 lb. 8 oz.
61 A 1485—1 Pint
61 A 1482—½ Pint wt. 10 oz.

Black Rubber Coating

Like above but Dresses up tires
61 A 1484—Black Pint
P75 A 322—1½ Brush. Ship. wt.

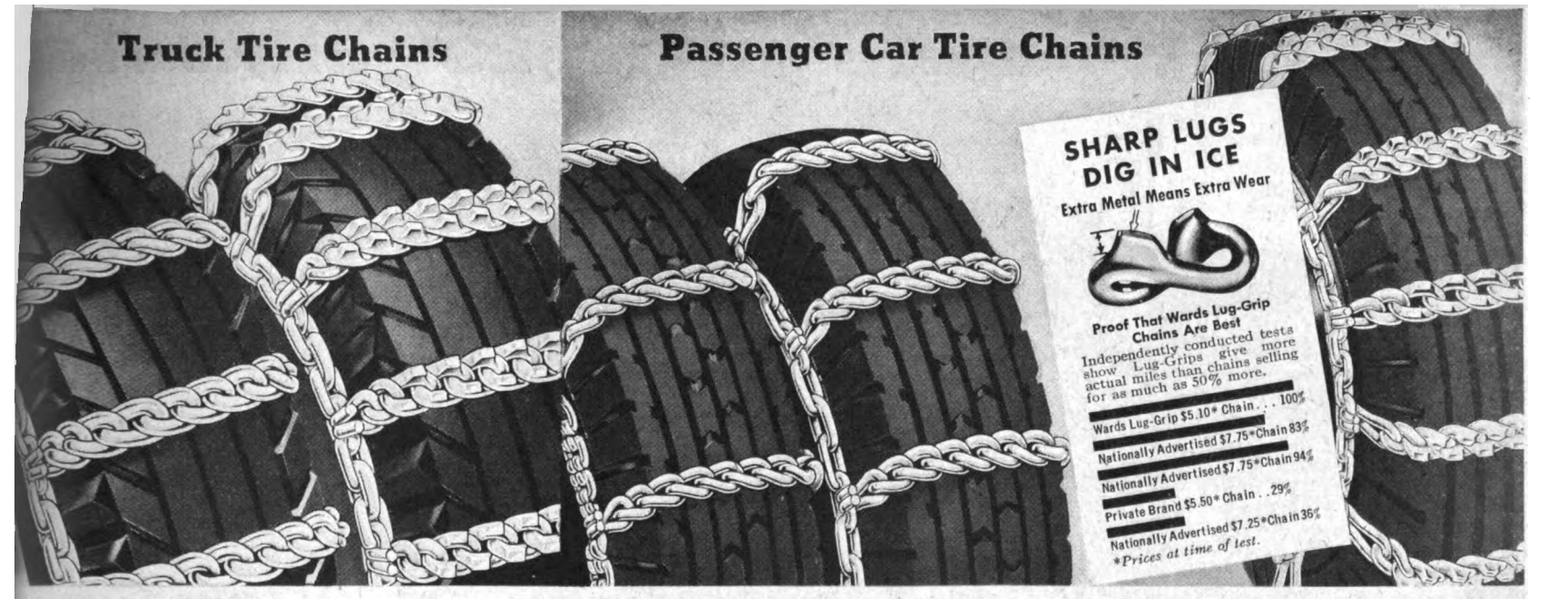
White Side Wall Cleaner

Paste Removes and tires or Wipe
61 A 1481—Wt. 1 lb.

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Truck Tire Chains

Passenger Car Tire Chains



SUPREME QUALITY $4.95 And Up

First quality Truck Chains that pull you through muddy roads—keep your trucks moving in winter—and give all around good traction service. Cross chains are made of tough "Moly" steel for extra wear. Electrically welded for uniform strength. Easy operating fasteners.

WARDS LUG-GRIPS $6.90 And Up

If you buy your chains on the basis of lowest cost per mile, then Wards Lug-Grip "Moly" Chains are the chains for you. The extra husky knobs of molybdenum steel mean extra miles of service. Less danger of skids, too, or of getting your truck mired in the mud. Electrically welded. Easy operating fasteners.

For Single Truck Wheels

See Shipping Information at Right	Supreme Quality			Lug-Grips		
	Article No.	Ship. Wt.	Pair	Article No.	Ship. Wt.	Pair
30x5; 5.50-20; 6.00-20	461 A 6525	25 lbs.	$4.95	461 A 6540	37 lbs.	$6.90
7.50-17; 7.00-17; 7.50-16	461 A 6506	43 lbs.	9.10	461 A 6591	37 lbs.	10.69
32x6, 8 ply; 6.50-20	461 A 6526	30 lbs.	5.79	461 A 6541	43 lbs.	8.65
32x6, 10 ply; 7.00-20, 7.50-18	461 A 6505	46 lbs.	8.95	461 A 6592	42 lbs.	12.25
34x7; 7.50-20	461 A 6527	49 lbs.	8.95	461 A 6542	42 lbs.	11.75
8.25-20	461 A 6520	53 lbs.	9.98	M261 A 6593	56 lbs.	14.29
8.25-22	M261 A 6521	56 lbs.	9.98	M261 A 6594	57 lbs.	15.35
9.00-20; 9.75-18; 36x8	M261 A 6519	58 lbs.	11.55	M261 A 6595	60 lbs.	16.35
9.00-22, 9.75-20; 38x9; 10.00-20	M261 A 6524	61 lbs.	11.25	M261 A 6596	62 lbs.	16.35
10.50-20; 11.00-20	*261 A 6522	78 lbs.	13.95	*261 A 6597	78 lbs.	19.45

For Dual Truck Wheels

See Shipping Information at Right	Supreme Quality			Lug-Grips		
	Article No.	Ship. Wt.	Pair	Article No.	Ship. Wt.	Pair
32x5; 6.00-20	461 A 6528	53 lbs.	$6.85	461 A 6543	36 lbs.	$10.98
32x6, 8 ply; 6.50-20	461 A 6529	59 lbs.	11.19	*161 A 6544	66 lbs.	18.39
32x6-10 ply; 7.00-20; 7.50-18	*161 A 6511	75 lbs.	13.95	*261 A 6584	73 lbs.	17.95
34x7; 7.50-20	*161 A 6510	81 lbs.	14.90	*261 A 6585	77 lbs.	19.45
8.25-20	*161 A 6537	85 lbs.	16.65	*261 A 6586	79 lbs.	20.45
9.00-20; 9.75-18; 10.00-18	*261 A 6538	100 lbs.	18.25	*261 A 6587	92 lbs.	26.60

For best service we recommend use of Chain Tightener below.

GOOD—Wards Standard

• **9 to 11 Cross Chains Per Size.** Low As **$1.42** Pair

Side chains and cross chains are made of case-hardened carbon steel—the best chain material obtainable except for special alloy steels. These chains equal many so-called heavy duty brands selling elsewhere for much higher prices. Every set of Wards Standard chains is equipped with lever fasteners for quick, easy installation. See listings below.

BETTER—Wards Supreme

• **13 to 16 Cross Chains Per Tire Size.** Low As **$2.10** Pair

Made of tough Molybdenum steel. Much longer wearing than carbon steel. Twist link cross chains and side chains are electrically welded for uniform wear. Lie flat against tire for snug fit—will not dig into rubber. Recommended for hard service where chains are needed to pull you through mud or snow. Easy operating positive fasteners stay locked—assure tight fit and less chain noise.

BEST—Wards Lug-Grip "Moly" Steel Tire Chains

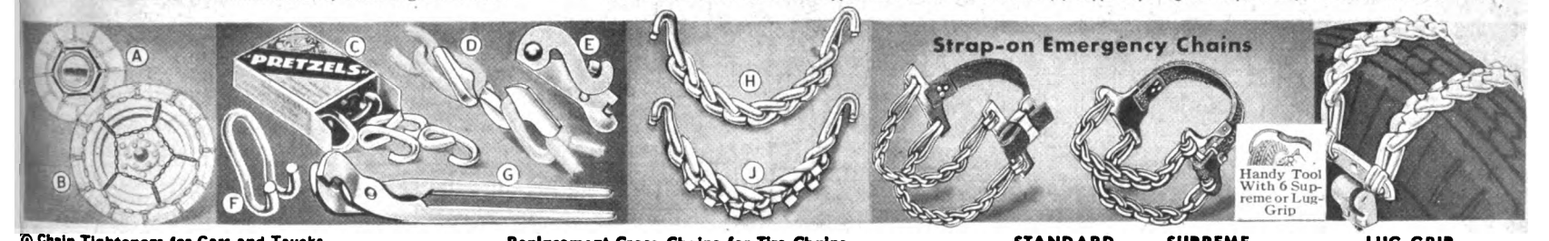
• **13 to 16 Cross Chains per Tire Size.** Low As **$3.63** Pair

You can see by the chart above that extra metal does mean extra wear. Gruelling road tests on dry concrete—the road surface that's toughest on chains—reveal that Lug-Grips give you more chain mileage per dollar. But that's not all. These husky knob-shaped lugs have extra gripping power too, to pull you through the soggiest mud and mire—to dig in and hold on ice where other chains might skid.

Get a pair of Lug Grips today. Don't be unprepared when the pavements are glazed with ice. A smashed fender or front end costs many times the price of chains. Lug-Grips are made of tough "Moly" steel. Cross Chains and side chains are electrically welded for uniform long wear. Designed to lie flat so they won't injure tire. Easy-operating positive fasteners stay locked—keep chains on the job, insure snug chain fit.

Tire Sizes For Pass. Cars	Standard Quality			Supreme Quality			Lug-Grips		
	Article No.	Ship. Wt.	Pair	Article No.	Ship. Wt.	Pair	Article No.	Ship. Wt.	Pair
30x3½; 29x4.50-20; 29x4.40-21; 30x4.50-21	461 A 6556	13 lbs.	$1.42	461 A 6579	16 lbs.	$2.10	461 A 7100	20 lbs.	$3.63
28x4.75-19; 29x4.75-20	461 A 6557	15 lbs.	1.79	461 A 6573	15 lbs.	2.69	P461 A 7101	20 lbs.	3.75
5.00-17; 5.25-17; 5.50-16	461 A 6558	14 lbs.	1.89	461 A 6575	16 lbs.	3.23	461 A 7102	19 lbs.	4.75
5.50-17; 28x5.25-18; 29x5.00-19	461 A 6559	16 lbs.	1.89	P461 A 6580	16 lbs.	3.47	P461 A 7103	20 lbs.	4.98
29x5.25-19; 29x5.50-19; 30x5.00-20; 30x5.25-20; 30x4.75-21				461 A 6581	18 lbs.	3.66			
30x5.50-20; 31x5.00-21; 31x5.25-21				461 A 6582	18 lbs.	3.79			
6.00-16	P461 A 6560	16 lbs.	2.19	P461 A 6589	17 lbs.	3.43	P461 A 7104	21 lbs.	5.23
6.25-16; 6.50-16; 6.00-17	P461 A 6560	16 lbs.	2.19	461 A 6583	19 lbs.	4.39	P461 A 7105	23 lbs.	5.97
7.50-17; 7.00-16				461 A 6574	23 lbs.	4.69	461 A 7106	26 lbs.	6.25
7.50-16; 7.00-17; 7.50-17; 32x7.00-18				461 A 6588	24 lbs.	4.99	461 A 7107	29 lbs.	6.69

Shipping Information on Chains: *Nos. starting with "P461" shipped from Chicago, Baltimore, Albany or Pittsburgh. Send order to nearest point. Those starting with "*261" and "M261" shipped separately from Factory in Chicago or York, Pa. usually in 4 extra days. Send order to Mail Order House. All others shipped from stock. Chains marked (*) Shipped by freight or express only—all others Mailable.*



(A) Chain Tightener for Cars and Trucks.
61 A 6653—For Passenger Cars. 6 hooks on heavy rubber band. Ship. wt. 12 oz. **18c**

(B) 61 A 6655—For truck tire sizes 5 to 6½ in., single. Ship. wt. 2 lbs. Each. **71c**

61 A 6656—For truck tire sizes 7 in. to 7.50 single. Ship. wt. 6 lbs. 3 oz. Each **$1.53**

61 A 6657—For truck tire sizes above 8 in. single or above 6 in. dual. Wt. 6 lbs. 3 oz. Each. . . **$1.99**

(C) Self-Closing "Pretzel" Repair Links.
61 A 6512—Ship. wt. 8 oz. Box of 10. . . . . **9c**

(D) Wing-Loc Cross Chain Repair Link. For Pass. Car non-reinforced twist link chains only.
61 A 6658—Box of 6. Ship. wt. 6 oz. **19c**

(F) Cross Chain Hooks. Ship. wts. 10 oz., 14 oz.
61 A 6651—Up to size 4.74. 10 for **10c**
61 A 6652—Sizes 5.00 and larger. 10 for **12c**

(E) Fasteners (For Pass. Car Chains)
61 A 6650—Shipping wt. 4 oz. Pair. **10c**

(G) Chain Pliers. For replacing cross chains.
61 A 6654—Shipping wt. 1 lb. 6 oz. **48c**

Replacement Cross Chains for Tire Chains

Tire Size	(H) Wards Supreme "Moly" Steel				(J) Wards Lug-Grip "Moly" Steel			
	Article No.	Ea.	10	Wt. for 10	Article No.	Ea.	10	Wt. for 10
For Passenger Cars								
3½, 4.40, 4.50, 4.75, 4½-in	61 A 6565	....	45c	2 lbs. 12 oz.	61 A 7140	....	67c	4 lbs.
4.75, 4½-in	61 A 6564	....	61c	3 lbs. 12 oz.	61 A 7141	....	85c	4 lbs.
5.00, 5.25, 5.50	61 A 6567	....	74c	3 lbs. 12 oz.	61 A 7142	....	$1.07	5 lbs.
6.00, 6.25, 6.50	61 A 6568	....	93c	5 lbs. 4 oz.	61 A 7143	....	1.30	5 lbs.
6.75, 7.00, 7.50	61 A 6569	....	$1.13	6 lbs.	61 A 7144	....	1.46	6 lbs.
For Single Wheel Trucks								
5.50, 6.00	61 A 6530	11c	$1.05	6 lbs.	61 A 6551	17c	$1.60	7 lbs. 8 oz.
6.50	61 A 6531	15c	1.40	8 lbs. 8 oz.	61 A 6552	23c	2.15	8 lbs. 4 oz.
7 in., 7.00, 7.50	461 A 6532	23c	2.15	13 lbs.	461 A 6553	28c	2.65	16 lbs.
8 in. 8.25	461 A 6581	24c	2.30	14 lbs.	M261 A 6570	32c	3.05	17 lbs.
9 in., 9.00, 9.75	M261 A 6562	26c	2.45	15 lbs.	M261 A 6571	40c	3.80	18 lbs.
For Dual Wheel Trucks								
5.50, 6.00	461 A 6533	22c	$2.05	12 lbs.	461 A 6554	36c	$3.40	20 lbs.
6.50	461 A 6534	30c	2.75	18 lbs.	461 A 6555	50c	4.75	24 lbs.
7 in., 7.00, 7.50	461 A 6535	45c	4.15	27 lbs.	M261 A 6578	54c	5.15	25 lbs.
8 in., 8.25	461 A 6546	45c	4.30	27 lbs.	M261 A 6577	60c	5.70	26 lbs.
9 in., 9.00, 9.75	M261 A 6566	49c	4.70	29 lbs.	M261 A 6578	77c	7.35	28 lbs.

STANDARD

High Quality case hardened carbon steel. Web straps. Positive fasteners. Installation tool not included. Shipping weight 1 lb. 8 oz.

SUPREME

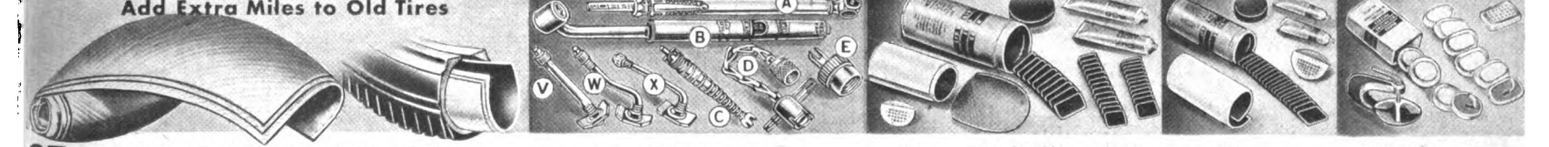
Heavy duty "Moly" steel. Heavy 3-ply vulcanized fabric strap. Non-slip buckle. Installation tool above with set of 6. Ship. wt. ea. 2 lbs.

LUG-GRIP

Same non-skid links as on Lug-Grip complete chains above. Knobs dig in ice, snow, and mud to give you more traction. Longer wearing because of "Moly" steel and extra metal in lugs. 4-ply fabric straps. Non-slip buckle. Installation tool above with set of 6. Ship. wt. each 2 lbs. 4 oz.

Tire Sizes For Pass. Cars*	STANDARD			SUPREME			LUG-GRIP		
	Article No.	Ea.	6 for	Article No.	Ea.	6 for	Article No.	Ea.	6 for
3½, 4, 4½, 4.40, 4.50, 4.75	61 A 6625	16c		61 A 6547	30c	$1.68			
5 in. 5.00, 5.25, 5.50	61 A 6626	21c		P61 A 6548	35c	1.92	P61 A 7120	47c	$2.64
6.00, 6.20, 6.50	61 A 6627	25c		P61 A 6550	42c	2.40	P61 A 7121	52c	2.94
6.75, 7.00, 7.50				61 A 6549	49c	2.82			

Wards Emergency Chains fit all wheels including steel and disc type wheels with slots. Use complete chains for disc wheels without slots.



27c 30x3½ Ea. Wards Oversize Multi Ply Tire Reliners 49c 6.00-16 Each

Ply Built for Extra Strength

Get extra miles from old tires by strengthening the weak spots with a Ward Reliner. Made of strong tire fabric, covered with sticky cement coating that makes reliner self-vulcanizing. Oversize, for protection right up to tire bead. Most reliners are narrower, do not offer the full, around-the-tire protection that Wards give. Smooth, perfect fit—no rough edges to pinch tube. Easily and quickly installed. Play safe this season. Buy a reliner now at Wards low prices.

For Pass. Car and Truck Tires	Ship Wt	Article No.	2 For	Each
3-Ply Reliners for Passenger Car Tires				
30 by 3½	3 lbs. 4 oz.	61 A 1370	50c	27c
4.40-21; 4.50-20; 4.50-21	4 lbs.	61 A 1390	78c	41c
4.75-19; 5.00-19; 5.00-20	4 lbs.	61 A 1391	80c	42c
5.25-17; 5.50-17; 5.50-16	4 lbs. 8 oz.	61 A 1392	94c	49c
5.25-18; 5.25 19; 5.50-18; 5.50-19	5 lbs.	61 A 1377	94c	49c
5.25-20; 5.25-21; 5.50-20	5 lbs.	61 A 1393	$1.00	52c
6.00-16	5 lbs.	61 A 1389	94c	49c
6.00-17; 6.25-16; 6.50-16; 6.50-17	5 lbs.	61 A 1394	$1.08	56c
6.00-18; 6.00-19; 6.50-18; 6.50-19	6 lbs.	61 A 1379	1.10	57c
6.00-20; 6.00-21; 6.50-20	6 lbs.	61 A 1380	1.20	62c
7.00-16; 7.00-17; 7.50-16; 7.50-17	6 lbs.	61 A 1387	1.24	64c
2-Ply Reliners for Passenger Car Tires				
4.40-21; 4.50-20; 4.50-21	3 lbs.	61 A 1395	55c	29c
4.75-19; 5.00-19	3 lbs. 8 oz.	61 A 1383	64c	34c
Heavier (4 and 6-Ply) Reliners for Truck Tires				
30 by 5	4-ply 5 lbs. 8 oz.	61 A 1373	$1.10	57c
32 by 6 8 ply tire 6.00-20	4-ply 6 lbs. 8 oz.	61 A 1381	1.26	65c
32 by 6 10 ply tire; 6.50-20; 7.00-20	4-ply 7 lbs.	61 A 1388	1.54	79c
34 by 7; 7.50-20	6-ply 15 lbs.	561 A 1386	3.26	$1.65

Accurate Tire Gauges

(A) 61 A 1720—Gauge For Balloon Tires. Registers pounds from 5 to 50 lbs. Pocket clip. Ship. wt. 3 oz. **59c**

(A) 61 A 1722—Gauge For High Pressure Tires. Registers 20 to 120 lbs. Pocket clip. Ship. wt. 5 oz. **59c**

(B) 61 A 1712—Dill Service Station Gauge. Enclosed indicator. Double foot for testing dual and single tires. Registers 15 to 125 lbs. Ship. wt. 10 oz. **$1.85**

(C) Valve Core—Air-tight, self aligning pin. Ship. wt. 2 oz.
61 A 1759—Box of 5. . . . . **13c**

(D) Valve Fishing Tool—The ideal device for removing valve cores that have corroded in stem. Repairs and retreads them, too. Chain leads valve through hole in wheel.
61 A 1711—Ship. wt. 2 oz. **13c**

(E) Wards Regular Valve Caps—Nickel-plated. Leakproof.
61 A 1700—Wt. 2 oz. Box of 5. . . . . **12c**

Truck Valve Stems—With Valve cap, core. Ship. wt. 4 oz.
61 A 1713—State style: V, W, or X, and size of Tube, diameter, width of rim. . **35c**

Supreme Quality Tire and Tube Repair Kits

Don't be helpless when tire trouble strikes. Even if far from a service station, you'll soon be on your way again if your car is equipped with a Ward Tube Repair Kit. Save money by repairing damaged tubes at home, too. Wards Kits contain all necessary materials including patches, patching rubber, cement, buffer and other materials indicated.

10c And Up

33 Sq. Inches of Material
6 Sq. Patches—1¼ by 1¼ in.
4 Oblong Patches—2 by 1¼ in.
15-sq. in. strip Patching Rubber.
One ¾ x4-in. tube Cement; Buffer.
61 A 1303—Ship. wt. 6 oz. . . **10c**

72 Sq. Inches of Material
20 Sq. Patches—1¼ by 1¼ in.
40¾-Sq. In. strip Patch Rubber.
Two ¾ x4-in. tubes Cement; Buffer.
61 A 1309—Ship. wt. 12 oz. . **18c**

108 Sq. Inches of Material
20 Sq. Patches—size about 1¼ by 1¼ Inches.
5 Oblong Patches—size about 1¼ by 2 inches.
One 64½-Sq. in. Strip of (Black) Patching Rubber.
One Boot—4 by 5 inches.
Two ¾ x4-in. tubes Cement; Buffer.
61 A 1310—Ship. wt. 1 lb. 2 oz. 27c

160 Sq. Inches of Material
25 Square Patches—size abt. 1¼ by 1¼ inches.
10 Oblong Patches—size abt. 1¼ by 2 inches.
One 96 Square Inch Strip of Patching Rubber.
One Boot—4 by 5 inch size.
Two 2-oz. tubes Cement; Buffer.
61 A 1311—Shipping weight 1 lb. 10 oz. **38c**

325 Square In. of Material
50 Sq. Patches—1¼ by 1¼ in.
25 Oblong Patches—1¼ by 2 in.
One 184¾-Square In. strip Patching Rubber.
½-Pt. Can Rubber Cement; Buffer.
61 A 1312—Ship. wt. 2 lbs. 2 oz. **69c**

Vulcanizing Kits

Heat-vulcanized patches stick tighter, stay on longer. Handy 5-minute Vulcanizing Outfit with universal clamp that handles most all types of hot patches. Repairs auto and bicycle tubes, rubber boots and shoes, hot water bottle, etc. Includes clamp with 6 oval and 4 round patches. New type patches have wick for easy lighting, wrapped in pliofilm to insure freshness.

45c

61 A 1428—Kit. Ship. wt. 1 lb. 8 oz. **45c**

Extra Heat Patches—Supreme Quality
61 A 1429—With wicks. Buffer included. 6 oval and 4 round patches. Box of 10. Wt. 10 oz. **31c**

Standard Quality
61 A 1420—6 oval, 4 round. With buffer. Wt. 10 oz **18c**

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Radiators

When Buying a Radiator, Add Anti-freeze and a Grille Cover to Your-Order and Buy on Time—See Inside Back Cover

Save $6.85 to $23.15 on Ward

See What You Save

Don't pay car dealers' prices! Wards Best Radiators are guaranteed equal to the finest sold anywhere. Check the savings below.

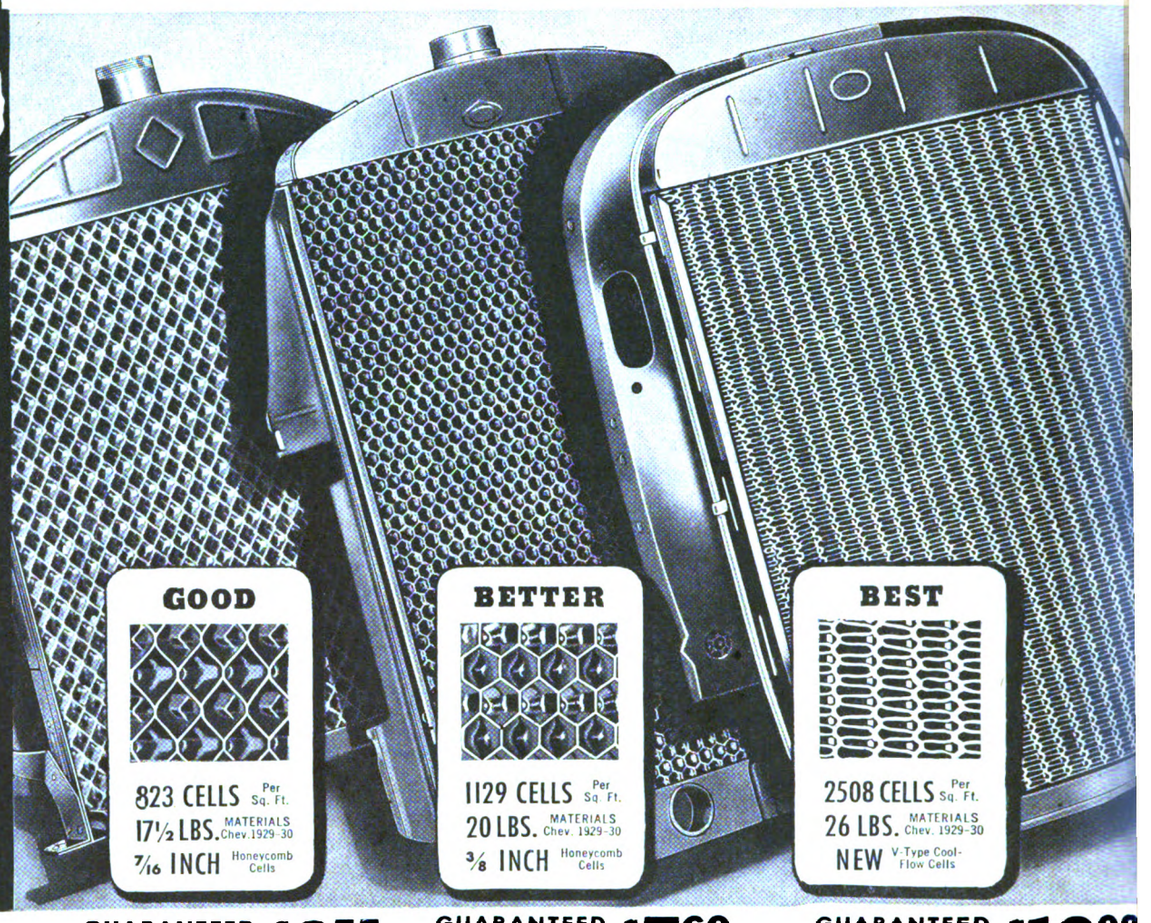
RADIATOR FOR	DEALER'S PRICE	WARDS PRICE	YOU SAVE
Ford T, 1924-27	$18.50	$8.45	$10.05
Ford A, 1928-29	20.00	13.15	6.85
Chev. 1929-30	22.00	14.25	7.75
Buick 60, 1935	54.50	31.35	23.15

75c ALLOWANCE FOR OLD RADIATOR

With any Ward Radiator purchased by mail, Wards send you a refund coupon good for 75c in cash—redeemable when old radiator is sent prepaid to any Ward Mail Order House or is delivered to any Ward Retail Store.

GUARANTEE

All Wards Radiators are guaranteed against failure due to freeze damage, and to give satisfactory service for the period specified for each quality, if installed according to instructions. If any Ward Radiator should become unserviceable within the guarantee period (other than from misuse or accident), we will replace it with a new radiator, charging you only for the period of satisfactory service rendered.



How to Order Radiators

Make, year (Example Buick 1935) Model Number or Letter (Example 60, 90, A-6, Master, DeLuxe, Airflow, etc. also Factory or Serial No.). Get this information from your License Card or Bill of Sale.

In high temperature or high altitude areas or for other heavy duty use, we recommend Supreme Quality Radiators.

Shipping Information. Art. Nos. starting with "P461" *Mailable* and shipped from Stock in Albany or Pittsburgh. Send order to whichever is nearer. Those keyed "461" *Mailable*, shipped from Stock in Albany. Those keyed "M261" *Mailable*, shipped from Factory in Philadelphia usually in 3 extra days. Those keyed "261" *Not Mailable*, shipped from Factory in Philadelphia by freight or express in 3 extra days On factory shipments you pay transportation from Philadelphia factory. Those keyed "161" *Not Mailable*, shipped from Albany by freight or express only.

Important: Before installing clean, flush motor block.

GUARANTEED 12 MONTHS $6.55 and up

A Good Quality Radiator—made to give satisfactory service on the older cars for which it is listed. Built with zig-zag water channels. Made entirely of brass. Tanks, cell and channels all securely soldered. *Cap, shell and drain cock not included.* See "How to Order" and shipping information at left. *Mailable.*

Fit Only These Cars	Article No.	Ship. Wt.	Price
Ford 1928-29 A Pass.	461 A 1940	23 lbs.	$8.45
1930-31 A Pass. Cars	M261 A 1944	26 lbs.	9.60
1917-23 T-TT Pass., Truck	M261 A 1941	18 lbs.	6.55
1924-27 T-TT Pass., Truck	461 A 1942	21 lbs.	6.89
Chev. 6-cyl. 1929-30 AC AD Pass. Cars	M261 A 1943	21 lbs.	9.30
6-cyl. 1931 AE Pass. Cars	M261 A 1945	22 lbs.	9.65

GUARANTEED 18 MONTHS $7.69 and up

Offered for 1933 and previous model cars. Same efficient "Honeycomb" type as most original equipment, but priced much lower.

Has 37% more cooling cells and 19½% more materials than Wards Good Quality. This means faster water flow, more metal exposed to the air to give more efficient cooling action. (For high temperature or mountainous areas or for other heavy duty use we recommend Wards Supreme Quality Radiators.) Core is all brass with brass tanks and steel side Brackets—all securely soldered. *Cap, shell and drain cock not included.* See "How to Order" and shipping information at left.

(ORDER FROM TABLES BELOW)

GUARANTEED 24 MONTHS $12.98 and up

Get this New Cool-Flow V-Type for all late model high speed cars or for high temperature or mountainous driving in any car. Same type radiator as used for standard equipment on many 1941 cars. Order this for better cooling efficiency for hard-to-cool motors. New V-type construction has super cooling fins that swirl the water through the radiator—20% more efficient than Honeycomb type radiators.

Straight-thru water channels resist clogging. Made of copper-alloy and solder—proved the best, longest lasting material for radiator core construction. *Cap, shell and drain cock not included.* See "How to Order" and shipping information at left. Buy a new Radiator on Wards Time Payment Plan. See Inside Back Cover.

(ORDER FROM TABLES BELOW)

24 MOS. GUARANTEED CELLULAR TYPE FOR CHEV. 1927-40

Prices for Radiators Only—Caps, Shells, Drain Cocks Not Included		Guaranteed 24 Mos.		
Year	Fits Only Years and Models Listed Below	Article No.	Ship. Wt.	Price
1927-28	AA Passenger; Trucks LM 1927; LO, LP 1928	461 A 8105	30 lbs.	$13.15
1928	AB Passenger Cars Only	461 A 8106	31 lbs.	12.98
1929	AC Passenger Cars; LQ 1½-Ton and Sedan Delivery Trucks	461 A 8108	30 lbs.	14.25
1930	AD Passenger; LR, LS 1½-Ton and Sedan Delivery Trucks	461 A 8108	30 lbs.	14.25
1931-32	AE Pass. & LT M 1½-Ton 1931; Commercial BB & N 1½-Ton 1932; Sedan Delivery 1931-32	461 A 8109	31 lbs.	14.25
1932-33	BA Pass., Sedan Delivery 1932; Comm. CB, & O 1½-Ton, 1933	M261 A 8110	30 lbs.	14.25
1933	Standard Model CC	M261 A 8111	29 lbs.	13.85
1933	Master Model CA	461 A 8112	30 lbs.	14.55
1934	DA, Master and Sedan Delivery	461 A 8113	30 lbs.	14.75
1934	DC, Standard	M261 A 8114	29 lbs.	13.85
1935	EA, ED, Master	461 A 8115	34 lbs.	14.75
1935	EC Standard and Sedan Delivery	M261 A 8116	29 lbs.	13.85
1934	DB ½-Ton; P 1½-Ton Truck (Regular 2 in. core)	461 A 8117	33 lbs.	15.25
1934	P Series 1½-Ton Truck Heavy Duty (3 in. core)	461 A 8118	41 lbs.	18.75
1935-36	Comm. EB & FB; Q and R Series 1½-Ton (Regular 2-in. Core)	461 A 8119	34 lbs.	15.25
1935-36	Q & R Series 1½-Ton Heavy Duty 3-in. core. (157-in. W. B.)	461 A 8120	43 lbs.	19.75
1936	Master FA and FD; Standard FC and Sedan Delivery	461 A 8121	34 lbs.	14.75
1937	Master GB, Master Deluxe GA and Sedan Delivery	461 A 8122	30 lbs.	15.80
1937	Comm. GC, GD, GE, ½-¾-1-Ton, S 1½-Ton (2-in. core) 131-in. W. B.	M261 A 8123	33 lbs.	16.35
1937	S 1½-Ton, Comm. GD, GE Heavy Duty 157-in. W. B. (3-in. core)	461 A 8125	44 lbs.	20.25
1938	Master, Sedan Delivery HB; Master Deluxe HA	M261 A 8126	29 lbs.	16.15
1938	Comm. HC, HD, HE ½-¾-1-Ton, T 1½-Ton 131-in. W. B. (2-in. core)	M261 A 8127	34 lbs.	18.50
1938	T 1½-Ton Heavy Duty, Comm. HD, HE 157-in. W. B. (3-in. core)	M261 A 8129	44 lbs.	21.25
1939	Master JB 85, Master Deluxe JA, Sedan Delivery	M261 A 8130	30 lbs.	16.25
1939	Comm. JC, JD, JE ½-¾-1-Ton & V Utility 1½-Ton (2-in. Core)	M261 A 8131	33 lbs.	18.60
1939	Commercial and 1½-Ton Trucks Heavy Duty (3-in. core)	M261 A 8132	44 lbs.	21.25
1940	KC, KD, KE, ½-¾-1-Ton and W Utility 1½-Ton (2-in. core)	M261 A 8134	33 lbs.	18.65
1940	Commercial and 1½-ton Truck, Heavy Duty (3-in. core)	M261 A 8135	44 lbs.	21.95

18 MOS. GUARANTEED CELLULAR TYPE FOR CHEV. 1923-33

1923-24	Superior Passenger Cars and Trucks	M261 A 6942	25 lbs.	$7.69
1925-26	K Util., M&R, Pass., Trucks, with left lower hose (as you sit in car)	M261 A 6979	25 lbs.	9.25
1926	V Util., X-Pass., Truck, with right lower hose (as you sit in car)	461 A 6967	25 lbs.	9.30
1927-28	AA Passenger; Trucks LM 1927; LO, LP 1928	461 A 6984	25 lbs.	10.60
1928	AB Passenger Cars Only	461 A 6960	25 lbs.	11.60
1929	AC Passenger; LQ 1½-Ton and Sedan Delivery Truck	461 A 6899	25 lbs.	11.25
1930	AD Passenger; LR, LS 1½-Ton and Sedan Delivery Trucks	461 A 6899	25 lbs.	11.25
1931-32	AE Pass. & LT, M 1½-Ton 1931; Comm. BB & N 1½-ton 1932; Sedan Delivery 1931-32	461 A 6997	25 lbs.	11.25
1932-33	BA Passenger 1932; Comm. CB, Sedan Delivery & O 1½-Ton 1933	M261 A 6982	25 lbs.	11.25

CELLULAR FOR 1928-31 MODEL A FORDS

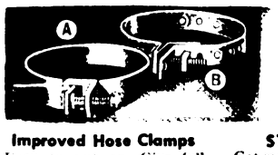
See Tubular listings on opposite page for other Models of Ford Cars

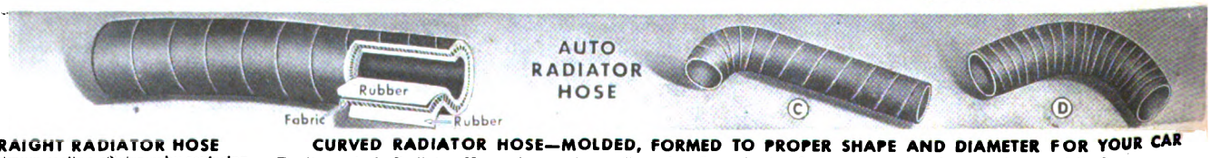
Prices Shown Are for Radiators Only—Caps, Shells and Drain Cocks Not Included		Guaranteed 24 Mos.			Guaranteed 18 Mos.		
Year	Fit Only These Cars and Models	Article No.	Ship. Wt.	Price	Article No.	Ship. Wt.	Price
1928-29	For A Passenger cars				461 A 1903	25 lbs.	$9.6
1930-31	For A Pass. and ½-Ton Truck				461 A 1904	32 lbs.	10.8

CELLULAR FOR OTHER CARS State Make, Year and Model of Car

BUICK—1920-29 All Models	M261 A 8150	58 lbs.	$30.25	M261 A 6959	49 lbs.	$22.8
1930-32 All Models	M261 A 8151	57 lbs.	31.25	M261 A 6928	48 lbs.	25.2
1933-38 All Models	M261 A 8152	62 lbs.	31.35			
CHRYSLER—1924-28 Models 50; 52; 58; 60; 62; 70 (except 1928, 70)	*261 A 8153	57 lbs.	26.25	*261 A 6953	48 lbs.	20.9
1928-32 Models 65; 66; 70; 72; 75; 77	*261 A 8154	78 lbs.	28.85	*261 A 6916	65 lbs.	22.9
DE SOTO—1929-38 6 & 8 cyl. except Airflow	M261 A 8155	62 lbs.	27.45	M261 A 6940	52 lbs.	21.2
1934-35 Airflow Models	M261 A 8156	62 lbs.	31.75			
DODGE—1917-27 4-cyl.; Old Series; and Series 124	M261 A 8157	43 lbs.	16.98	M261 A 6919	34 lbs.	13.8
1927-28 Std. 6 and Series 128	M261 A 8158	44 lbs.	21.95	M261 A 6977	35 lbs.	17.3
1928-32 All Mod. (ex. 1928 Std. 6 1928 Model 128 and 1929-30 Sr. 6)	*261 A 8159	62 lbs.	27.35	*261 A 6917	52 lbs.	22.3
1933-38 Pass. ex. 1933 DO-8-cyl.	*261 A 8160	77 lbs.	27.45			
1936-37 ½-Ton Truck	*261 A 8160	77 lbs.	27.45			
HUDSON—1933-35 All Models	*261 A 8162	77 lbs.	27.45			
HUPMOBILE—1928-30 6-cyl. Mod. A-5, A-6; S; Century 6	M261 A 8163	58 lbs.	30.75	M261 A 6934	49 lbs.	23.95
NASH—1925-29 All Models	M261 A 8164	51 lbs.	27.45	M261 A 6989	42 lbs.	20.85
OLDSMOBILE—1928-32 All Models	M261 A 8165	54 lbs.	26.25	M261 A 6978	45 lbs.	19.95
1933-38 All Models	M261 A 8166	66 lbs.	28.55			
PLYMOUTH—1929-32 All Models	*261 A 8167	66 lbs.	22.75	*261 A 6939	54 lbs.	18.70
1933-40 All Pass. Models (†)	*261 A 8168	53 lbs.	22.80			
PONTIAC—1926-29 All Models (‡)	M261 A 8169	57 lbs.	21.95	M261 A 6981	48 lbs.	17.45
1930-32 All Models	M261 A 8170	56 lbs.	25.25	M261 A 6918	46 lbs.	20.45
1933-38 All Models	M261 A 8171	66 lbs.	25.25			
STUDEBAKER—1925-30 Std. 6; Dic. 6 & 8; Erskine 53; Spec. 6	M261 A 8172	66 lbs.	31.35	M261 A 6938	54 lbs.	23.95
TERRAPLANE—1934-37 6-cyl.	M261 A 8173	61 lbs.	27.45			

(†) For 1933 Plym.; state if PC or PD and if PC state location of filler neck under hood or outside. (‡) For Pontiac 1928-29 state if hose connections are at sides or at top and bottom.





Improved Hose Clamps

Easy to put on. Give full contact on hose all the way around. Same type as used on most transport planes. Rust-resisting steel. For hose up to 3½ in. inside diam.

(A) 61 A 2395—Ship. wt. 3 oz. Pair..... 11c

(B) 61 A 2390—Plain Strap. Galvanized. 3 in. inside diameter. Wt. 3 oz. Pair..3c

STRAIGHT RADIATOR HOSE

Get maximum cooling efficiency by replacing hose when you install your new radiator. Wards 3-Ply Heavy Fabric radiator hose is not affected by heat, rust, vibration or chemicals.

3-Ply Radiator Hose by the Foot

In 1, 2, 3 or 4-ft. lengths only. Average shipping wt. ft., 14 oz.	Inside Diam	Article No.	Per Ft.
	1⅛ in.	661 A 2669	12c
	1¼ in.	661 A 2664	13c
	1½ in.	661 A 2665	15c
	1¾ in.	661 A 2666	17c
	2 in.	661 A 2667	18c
	2¼ in.	661 A 2668	19c

CURVED RADIATOR HOSE—MOLDED, FORMED TO PROPER SHAPE AND DIAMETER FOR YOUR CAR

Don't overlook Radiator Hose when you're getting your car ready for winter. Faulty hose can cause you unwarranted expense in anti-freeze loss, as well as motor repairs due to overheating, etc.

Wards Radiator Hose is black to match original equipment. Made with 2 plies of heavy fabric and a tough inner lining.

61 A 2692 for Chev. 1935-40 replaces metal elbow and short hose.

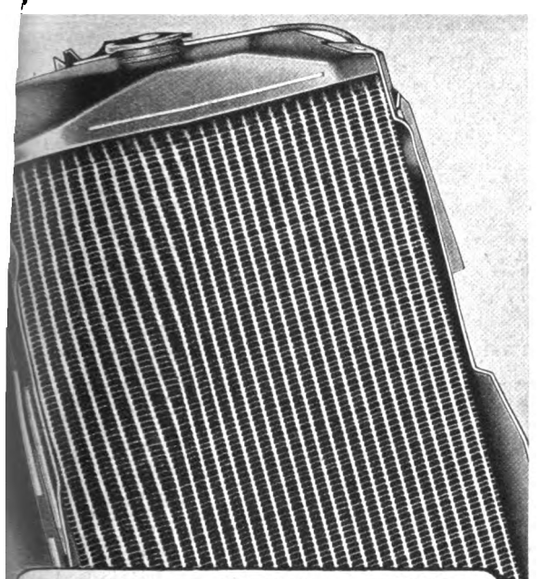
61 A 2685 and 61 A 2690 are pictured; others not pictured. 2 pieces required for V-type engines; others require only one. Instructions included.

Curved to fit perfectly. 2-ply construction. Average ship. wt. 1 lb. 9 oz.

Model	Year	Position	Art. No.	Each	Model	Year	Position	Art. No.	Each
Ford Pass. 85 except DeLuxe	1937-39	Upper	61 A 2682	37c	Chev. All	1935-40	Lower	61 A 2692	37c
Truck 85	1937-41	Upper	61 A 2683	37c	Dodge All	1935-40	Lower	61 A 2692	37c
Pass.; Truck 60	1937-39	Upper	61 A 2686	37c	Oldsmobile 6	1934-36	Lower	61 A 2689	42c
(C) Pass.; Truck 60	1937-39	Lower	61 A 2685	25c	6, 8	1937-41	Lower	61 A 2691	42c
DeLuxe85, Mercury	1939-41	Upper	61 A 2687	45c	Plymouth All	1936-40	Lower	61 A 2692	37c
DeLuxe85, Mercury	1939-41	Lower	61 A 2688	37c	Pontiac 8	1933-36	Upper	61 A 2689	42c
Buick 40, 50	1934-41	Lower	61 A 2689	42c	6, 8	1937-38	Lower	61 A 2689	42c
60, 70	1939-41	Lower	61 A 2689	42c	6	1935-36	Upper	61 A 2689	42c
60, 80, 90	1936-38	Lower	61 A 2689	42c	6, 8	1939-41	Upper	61 A 2691	42c
(D) 40, 50, 60	1939-41	Upper	61 A 2690	37c	6, 8	1939-40	Lower	61 A 2689	42c
					8	1941	Lower	61 A 2689	42c

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Radiators



WARDS STANDARD	WARDS SUPREME	WARDS SUPREME
For Fords	For 1928-31 Fords	For 1932-40 Fords
74 to 99 Water Tubes—Same Cooling Efficiency as Most Original Equipment Type Radiators. *Has Standard Number of Cooling Fins.*	99 to 114 Water Tubes—*Has* 15% to 25% More than Wards Standard Quality Radiators. *Has* 15% *More Cooling Fins than Standard Quality.*	Up to 154 Water Tubes—25 to 35% More than Wards Standard Quality Radiators. *Has* 15% *More Cooling Fins than Standard Quality.*

Tubular Type for Fords

GUARANTEED 24 MONTHS
Wards Supreme Quality
$13.15 and up

A high quality Tubular Type Radiator—meets today's requirements for better, faster cooling in Fords. Tubes are all brass, made oval shape to resist freezing, clogging and corrosion. The extra deep core is carefully constructed with tubes in 3 rows—tubes, fins and tanks are all securely soldered. Extra heavy side brackets give shakeproof anchorage.

New Ribbon Flow Tubes on Supreme for 1932-40 Ford Cars and Trucks. More tubes are packed into the core to provide more streams of water for faster cooling. *Cap, shell and drain cock not included.*

See "How to Order" and Shipping Information on opposite page.

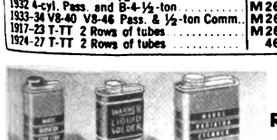
Only for FORD Models Below	Article No.	No. Tubes	Wt. Lbs.	Price
1928-29 Model A-AA Pass. and ½-Ton Truck	P461 A 1902	105	27	$13.15
1930-31 A & ½-Ton Truck	P461 A 1920	99	31	13.85
1930-31 AA 1½-Ton Truck	M261 A 1918	114	35	16.45
1932 BB 4-cyl. 1½-Ton Truck	M261 A 1951	133	36	19.70
1932 V8 18 Pass.; V-8 ½-Ton Commercial; V-8—BB—1½-Ton	M261 A 1950	131	36	19.70
1933-34 V8, 40, 46 Pass. and ½ Ton	461 A 1952	133	39	19.70
1933-34 BB 4-cyl. 1½-Ton Truck	M261 A 1953	133	40	19.70
1933-34 BB 8-cyl. 1½-Ton Truck	461 A 1954	133	40	19.70
1935 Mod. 48 Pass.; ½-Ton Sedan Delivery	461 A 1955	136	39	20.45
1935 Model 50 ½-Ton Truck	*261 A 1956	153	47	20.95
1935 Model 51 1½-Ton Single pulley	*161 A 1957	153	47	20.95
1936, 68, Pass. & ½-Ton Sedan Delivery	*161 A 1958	136	40	20.95
1936 Model 67 ¾-Ton Truck	*261 A 1959	153	47	20.95
1936 Model 51 1½-Ton Single pulley	*161 A 1960	153	48	20.95
1937 74-60 Pass. & ½-Ton Sedan Delivery	*261 A 1961	93	29	15.95
1937 78-85 Pass. & ½-Ton Sedan Delivery	*161 A 1962	119	39	20.55
1937 77-85 ½, ¾-Ton Truck	*261 A 1963	154	47	23.40
1937 79-85 1½-Ton Truck	*261 A 1964	154	48	23.30
1938-39 82A 922A (60 H.P.) Pass.	*261 A 1965	93	29	16.85
1938-39 81A 91A Standard (85 H.P.) Pass.	*261 A 1966	119	39	20.55
1938-39 81C 91C 99C Trucks	*261 A 1969	154	48	22.60
1938-39 81Y 91Y Trucks	*261 A 1968	154	48	22.50
1938-39 81U 81T 817T 81W 811W 811Z 91T 91U 91W 911W 911T 911Z 917T 917W (also fits 1940-41 cab over engine trucks)	*261 A 1974	154	48	22.50
1939-40 91A Deluxe 01A Deluxe and Standard, 1941 Sedan Del. 99A Mercury, 09A Mercury Pass.	*261 A 1970	149	55	22.35
1940 022A (60 H.P.) Pass.; Sedan Del	*261 A 1971	93	32	18.50
1940 01Y 01D Trucks	*261 A 1972	113	52	22.35
1940 01T 01U 018T 014T 85and95H.P. Trucks	*261 A 1973	149	56	23.35

GUARANTEED 18 MONTHS
Wards Standard Quality
$7.65 and up

Exact replacement—offers same cooling as most original equipment. Similar in construction to Wards Supreme Quality for Model A-AA Fords above, but has fewer tubes and fins and slightly less cooling capacity. Brass tanks. Cooling fins, of brass, are securely soldered to tubes for faster cooling. *Cap, shell, and draincock not included. Mailable.*

See "How to Order" and Shipping Information on opposite page.

Only for FORD Models Below	Article No.	No. Tubes	Wt. Lbs.	Price
1928-29 A and ½-Ton Truck	P461 A 1909	80	27	$10.60
1930-31 A & ½-ton Truck	P461 A 1910	74	25	11.85
1932 V-8 Model 18 & ½-ton Truck	M261 A 1922	99	27	14.25
1932 4-cyl. Pass. and B-A-½-ton	M261 A 1917	99	25	14.25
1933-34 V8-40 V8-46 Pass. & ½-ton Comm.	M261 A 1924	99	29	14.95
1917-23 T-TT 2 Rows of tubes	M261 A 2487	51	19	7.65
1924-27 T-TT 2 Rows of tubes	461 A 2490	51	19	8.45



Save at Wards on RADIATOR CLEANERS AND STOP-LEAKS

Improve Motor Performance

Wards Stop-Leak Liquid. Permanently seals small leaks in radiators, head and block. Won't harm cooling system. Retards rust formation. 25c
61 A 9592—10-oz. can. Ship. wt. 1 lb.

Famous Warner Liquid Solder—Stops small leaks in radiator, cracked motor heads and cylinder blocks. Will not harm Aluminum cylinder heads. Won't clog cooling system. Regular 50c size. 43c
61 A 9830—10-oz. can *Postpaid*.

Wards Combination Radiator Cleaner and Rust Preventive—Use before and after anti-freeze. Quick acting. Non-injurious. Loosens and removes rust, sludge and scale. Assures proper circulation to make motor run cool. Prevents further rust formation, engine overheating and leaks due to corrosion. Kit includes one pint can of flush and one ¾-oz. can of rust preventive. Ship. wt. 1 lb. 14 oz.
61 A 9567—One 16-oz. and one ¾-oz. can. Both for 35c



PRESTONE ANTI-FREEZE **$2.65 Gal.**

Nationally advertised and widely used. Gives permanent cold weather protection. One filling lasts all winter, no adding necessary. Prestone contains no alcohol, no glycerine. It will not boil away. It won't foam—no rust clogging. For sure protection against leaks replace your old hose connections. Table below shows amount of Prestone in quarts necessary to give you protection at temperatures given. To test—use testers listed below. *Shipped to you Prepaid.*

61 A 5052—1 Quart Can.. 70c
461 A 5048—1 Gallon Can. $2.65

SUPREME QUALITY ANTI-FREEZE **$1.98 Gal.**

Fine as you can buy regardless of price. Most economical because it gives you all season protection—won't evaporate or harm cooling system. Retards formation of rust and corrosion. One filling lasts all season—use it again next year. Table below shows amount of Supreme Quality Anti-Freeze in quarts necessary to give you protection at temperatures given. Guard against quick changing temperatures—play safe and buy now. Ship. wts.: Quart 2 lbs. 12 oz.; Gallon 10 lbs.

61 A 5032—1 Quart Can.. 55c
461 A 5033—1 Gallon Can. $1.98

WARDS NEW ICE GUARD ANTI-FREEZE—PROTECTS MOTOR AGAINST FREEZE-UPS **65c Gal.** In 6 Gal. Lots

- **Equal to Nationally Advertised Brands Selling for $1.00 Gal.**
- **Contains Powerful Agent that Prevents Formation of Rust.**
- **Harmless to Any Part of Cooling System.**

Wards New 1941 Ice-Guard Anti-Freeze is a high test Ethyl Alcohol, treated to prevent rust formation—contains oil seal that retards evaporation—does not have offensive odor. Contains special ingredients which prevent the formation of solid ice that damages cylinder blocks, cylinder heads and radiators. Made of 200 proof alcohol, gives more protection than ordinary denatured alcohol. This solution is not harmful to motor or radiator. Table below shows amount of Ice Guard Anti-Freeze in quarts necessary to give protection at temperatures given. Ship. wt. per gallon, 8 lbs.; per quart 2 lbs. 2 oz.; case 43 lbs.

61 A 5079—1 Quart Can.. 19c
461 A 5078—1 Gallon Can.. 69c
461 A 5080—Case of six 1-Gallon Cans.. $3.90



Anti-Freeze Testers

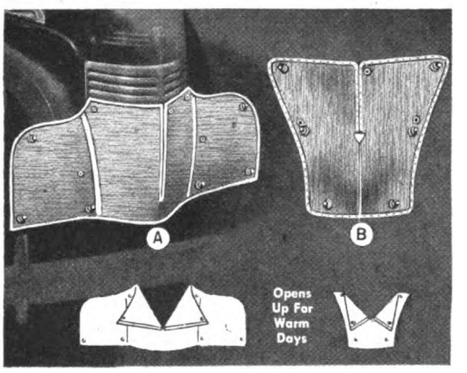
Test all Wards and other Nationally Known Anti-Freezes. 2-oz. rubber bulb, beaded float.

Ⓐ **61 A 3864—DeLuxe Tester.** Built-in Thermometer for most accurate reading. Wt. 14 oz. 95c
Ⓑ **61 A 3843—Accurate Tester.** Separate scales for hot or cold solution. Ship. wt. 10 oz. 45c
61 A 3863—Economy (not pictured). Wt. 8 oz. 19c

PROTECTION CHART FOR ANTI-FREEZE SOLUTION

NOTE: Hot Water Heaters increase cooling capacity 1 quart. Table below shows amount of anti-freeze necessary at temperatures given.

Cooling System Cap. Qts.	Evenady Prestone				Supreme Quality				New Ice-Guard			
	Qts. For +10°	Qts. For Zero	Qts. For −10°	Qts. For −30°	Qts. For +10°	Qts. For Zero	Qts. For −10°	Qts. For −30°	Qts. For +10°	Qts. For Zero	Qts. For −10°	Qts. For −30°
8	2	2¾	3	3¾	2¾	3¼	3¾	4¼	2½	2¾	3¼	4½
9	2¼	3	3½	4¼	3¼	3¾	4	4¾	2¾	3¼	3¾	5
10	2½	3½	4	4¾	3½	4	4½	5½	3	3½	4	5½
11	2¾	3¾	4¼	5¼	3¾	4½	5	6	3	4	4½	6
12	3¼	4	4¾	5¾	4	5	5½	6½	3½	4½	5	6½
13	3½	4½	5	6¼	4½	5¼	6	7	3½	4½	5½	7
14	3¾	4¾	5½	6¾	4¾	5¾	6½	7½	4	5	6	8
15	4	5	6	7¼	5¼	6¼	7	8	4	5½	6	8½



Deluxe Tailor-Made Radiator Grille Cover

- **Tailor-Made for Maximum Protection.**
- **Made in Three Pieces for Later Models.**
- **Heavy Double Rubberized Coated Fabric in Attractive Silver Finish—Waterproof, Windproof.**

89c Up

Ⓐ Use for quickest motor warm-up in cold weather—increases heater efficiency. Can be opened to save evaporation of anti-freeze on warm days—enables you to adjust opening for exact protection needed. Double sewed at all points of strain. Correct number of fasteners included for proper installation.

61 A 6835—For 1939-41 Ford, Chevrolet, Plymouth, also 1939 Mercury. **State Make.** Exact Year, Model of car. For Fords **state if model** 85 or 60 Std. or 85 DeLuxe. Wt. 12 oz. 89c
M261 A 6836—For other 1939-41 cars. **State Make,** Exact Year, Model. **Shipped from Factory in Kansas City, Mo. or Richmond, Va. usually in 5 extra days. Ship. wt. 1 lb. $1.10**

For 1938 and Older Cars See Below

Grille Covers for 1942 Cars—Wards can supply grille covers for new 1942 cars almost as soon as you get your new car from the dealer. Order any Ward Grille Cover at prices shown—use Wards Article Number and state "1942 make and model."

New Design Grille Cover for 1938 and Older Cars

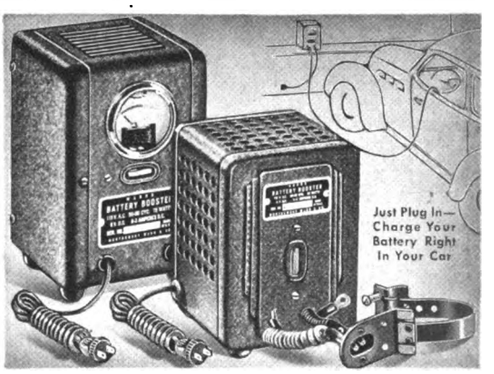
- **Two-coated Rubberized Fabric—Silver Finish.**
- **Covers 77% of Grille.—V Opening.**
- **Adjustable to opening needed for protection.**

72c

Ⓑ Fits following passenger cars: 1933–38 Chev.; 1932–38 Ford; 1931–38 Dodge; 1933–38 Buick, Nash, Terraplane; 1932–38 DeSoto, LaSalle (exc. 1935), Olds. (exc. 1937, 6 cyl.), Plym., Pontiac; 1931–32 8-cyl., 1934–35 and 1937 Cadillac; 1932–37, also 1938 (112-in. wheelbase) Hudson; 1936–37 Lincoln-Zephyr; 1935–37 6-cyl. and 120 Packard; 1931–38 (exc. 1935) Studebaker; 1934–38 Lafayette; 1932-38 Chrysler.

61 A 6834—With Spring Fasteners for installing. **State Make, Exact Year, Model of Car.** Shipping wt. 1 lb. 72c

Extra Spring Fasteners for covers. For attaching grille covers to cars. Rustproofed. Ship. wt. 2 oz.
61 A 6838—Set of 6. 9c



Wards Booster Chargers Keep Battery at Full Power

- **Convenient—Charges Battery Right in Car.**
- **Economical—Costs Less Than 1c an Hour.**
- **Efficient—Dry Rectifier Type—No Bulbs, No Acid—Nothing Additional to Buy.**
- **Automatic Taper Prevents Overcharging.**
- **Saves Rental Charges—Helps Pay for Itself.**

$3.95 4-Amp. Size

Don't run the risk of being unable to start on cold mornings. Radios, heaters, and other modern automobile accessories place a heavy drain on battery power. When your generator cannot replace this power, your battery will need frequent recharging to avoid trouble. Save recharging and rental costs.

Simple to use, easy to attach. No need to remove battery from car or disconnect wires. Heavy steel charger case hangs on wall, out of way. When ready to charge, simply plug long cord from charger into socket that mounts on steering column of car. In just a few hours your battery is "up," ready to deliver extra power for quick starts, bright lights, and better radio reception. Complete with about 12 ft. of cord (9 ft. on 4-amp. size) for connecting charger to socket in car, plug-in-cord, socket, battery leads and instructions. For any 105 to 120 volt, 50–60 cycle A.C. circuit.

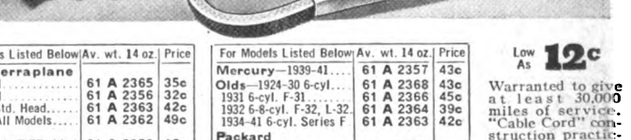
561 A 7099—10-Amp. Size—Charges at 10-amp. rate—tapers to 5-amp. rate. Delivers up to 100 amp. hours overnight for fast charging. Built-in charge indicator. Ship. wt. 14 lbs. $9.98
561 A 7097—6-Amp. Size—Charges at 6-amp. rate—tapers to 3-amp. rate. Delivers up to 60 amp. hrs. overnight. With built-in charge indicator. Good charger for average car owner. Shipping weight 7 lbs. 4 oz. $7.49
561A 7090—4-Amp. Size—Charges at 4-amp. rate—tapers to 2-amp. rate. Delivers up to 40 amp. hours overnight. Has no charge indicator. Complete with cord and socket. Shipping weight, 5 lbs. 12 oz. $3.95
61 A 7085—Extra Sockets to mount on the steering column of extra cars or trucks. Shipping weight 6 ounces. Each 39c

USE WARDS TIME PAYMENT PLAN

Build your order to $10 and buy your battery charger on Time Payments. Only $2 Down, $2 a Month. See Inside Back Cover.

Wards Cable Cord Fan Belts Outlast 2 or 3 Ordinary Belts

240 to 300 gum insulated tire cords twisted into stretch-proof cables. Give more service than ordinary ply construction fan belts.



For Models Listed Below	Av. wt. 14 oz.	Price
Buick 1929-30	61 A 2361	33c
1931-34 8-50 8-60	61 A 2356	32c
1934-39 8-cyl. 40 Series	61 A 2362	49c
Chevrolet—		
1918-25 Cars and Trucks	61 A 2351	30c
1926-28 Cars and Trucks	61 A 2352	30c
1929-32 Cars and Trucks	61 A 2353	29c
1933-34 Mstr. 6 Cars	61 A 2354	29c
1933-36 1½-Ton Truck	61 A 2354	29c
1935-36 Std. and Mstr. 6	61 A 2354	29c
1937-40 Cars and Trucks	61 A 2356	32c
De Soto—1929-31	61 A 2354	29c
1932-33 6-cyl. SC SD	61 A 2366	45c
1934-35 6-cyl. SE SG	61 A 2366	45c
1936 6-cyl. S-2 Airflow	61 A 2366	45c
1937-41 6-cyl.	61 A 2364	39c
Dodge—1922-27 4-cyl. (Flat Belt)	61 A 2369	21c
1932-33 8-cyl. DK DO	61 A 2363	42c
1933-41 6-cyl. Cars	61 A 2364	39c
Essex-Terraplane 1924-27 6-cyl. Flat Belt	61 A 2369	21c
1928-29 6-cyl. "V" Belt	61 A 2354	29c

For Models Listed Below	Av. wt. 14 oz.	Price
Essex-Terraplane 1930 6-cyl.	61 A 2365	35c
1932 6-cyl.	61 A 2356	32c
1932-35 Std. Head	61 A 2363	42c
1936-41 All Models	61 A 2362	49c
Ford 1921-25 (All T-TT with 1 out water pump)	61 A 2359	12c
1926-27 Pumps	61 A 2360	15c
1928-33 A B 46 4-Cyl.	61 A 2356	32c
1928-34 AA BB 46 Trucks	61 A 2356	32c
1932 V-8 18	61 A 2357	43c
1933-36 V-8 Pass. Cars	61 A 2358	39c
1934-36 V-8 Truck (4-blade fan)	61 A 2358	39c
1937-40 V-8 Truck All	61 A 2358	39c
1937-41 V-8 85 H.P. Cars	61 A 2357	43c
1937-40 V-8, 60 H.P. Cars	61 A 2350	35c
Hudson — 1928-29 6-cyl. After No. 10,000	61 A 2356	32c
1931-32 8-cyl.	61 A 2364	39c
1936-41 All Models	61 A 2362	49c

For Models Listed Below	Av. wt. 14 oz.	Price
Mercury—1939-41	61 A 2357	43c
Olds—1924-30 6-cyl.	61 A 2368	43c
1931 6-cyl. F-31	61 A 2366	45c
1932 6-8-cyl. F-32, L-32	61 A 2364	39c
1934-41 6-cyl. Series F	61 A 2363	42c
Packard 1935-37, 8, 120	61 A 2362	49c
Plymouth — 1930-31 4-cyl. 30U, with pump after No. 1517787	61 A 2362	49c
1931-32, 4-cyl. PA, PB, after No. 1570301	61 A 2363	42c
1933-41 6-cyl. All Models	61 A 2364	39c
Pontiac 6—1926-28	61 A 2361	33c
1929-32 6 cyl.	61 A 2365	35c
1933-35 8 cyl.	61 A 2366	45c
1935-36 6 & 8 cyl.	61 A 2366	45c
1937-41, 6-8 cyl.	61 A 2364	39c
Whippet-Willys 1926-30 4-cyl., 96A	61 A 2361	33c
1928-30 6-cyl. 98, 98A	61 A 2361	33c
1933-40 4-cyl. All	61 A 2356	32c

Low As 12c

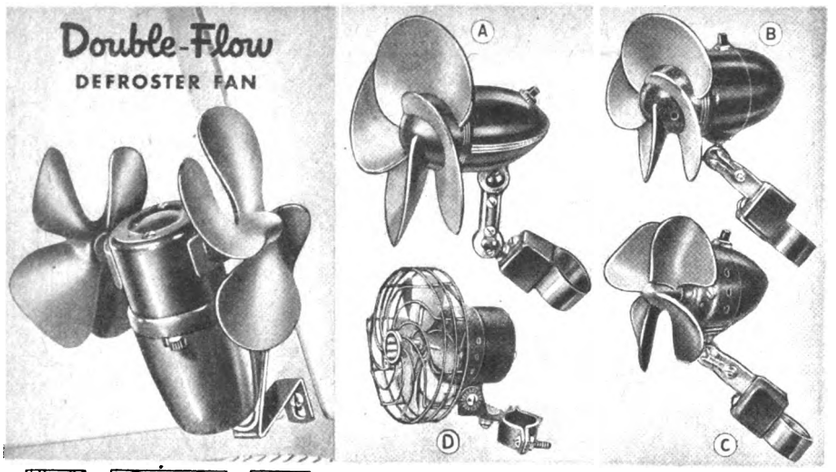
Warranted to give at least 30,000 miles of service. "Cable Cord" construction practically eliminates stretch—stays tight much longer. "Cable Cords" are tire cords of 40 to 50 strands each, embedded in live rubber. Strong, non-slip 2-ply duck covering vulcanized on. Wards Flat Belts are cotton fabric vulcanized into a single unit. Av. wt. 14 oz.

BA 983

USE WARDS TIME PAYMENT PLAN—See Inside Back Cover for Complete Details.

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Heaters for All (PICTURE





Electric Defrosting Fans Keep Windshield Clear

TWO-FANS—ONE MOTOR $5 Value

- **Two 4-in. Soft Rubber Fans.**
- **Silent Self-Oiling Motor.**
- **Built-in Switch on Motor.**
- **Best for defrosting V-Shaped Windshields.**
- **Readily mounted on Divider Bar or Cowl.**

$2.98

Modern and streamlined, designed for any car . . . built for heaviest service. Wards Double Flow Fan has quality and features easily worth $5. Defrosts side windows as well as windshield. Melts sleet and snow on outside, if used with heater. Because it is small and compact, it does not obstruct vision.

Deep pitched blades adjustable over a 45° angle move a maximum blast of air across entire windshield. Air output is about equal to largest single blade fans, but air is distributed more efficiently. The soft blades won't injure hands, yet are rigid enough to hold their shape when running at high speeds. Heavy steel motor housing is finished in rich gray enamel with chromium plated trim; blades and bracket are harmonizing color. Fits all cars. Complete with instructions.

61 A 4927—Ship. wt. 2 lbs. 8 oz. **$2.98**

WARDS SUPREME 6-In., Two Speed Rubber Fan—$3.95 Value

Ⓐ Best quality single Fan made. Clears biggest windshields quickly. Melts sleet and ice if used with heater. Silent 3-Amp. motor with self-oiling bearings. Built-in 2-speed switch. Die-cast case. Rich gray enamel finish. Chrome plated trim. Double ball-joint bracket adjusts to any position for defrosting or cooling. May be mounted overhead, on dash or steering columns, including extra large columns on Buick, Mercury, Lincoln.

61 A 4928—With instructions. Ship. wt. 2 lbs. 8 oz.. **$2.79**

WARDS STANDARD 4-In., Two-Speed Rubber Fan—$2.98 Value

Ⓑ Built exclusively for Wards. Has features which others ask $2.98 for. Blades are specially shaped to defrost big windshields easily—melt sleet and ice, if used with heater. 2½-Amp. motor—self-oiling bearings. 2-speed switch. Brown bakelite case with single ball-joint bracket. Adjustable to any position. Mounts over windshield, on dash, or steering columns, including extra large columns on Buick, Mercury, Lincoln.

61 A 4929—With instructions. Ship. wt. 2 lbs. 4 oz.. **$1.98**

Commander 4-In., Single Speed Rubber Fan—$2.00 Value

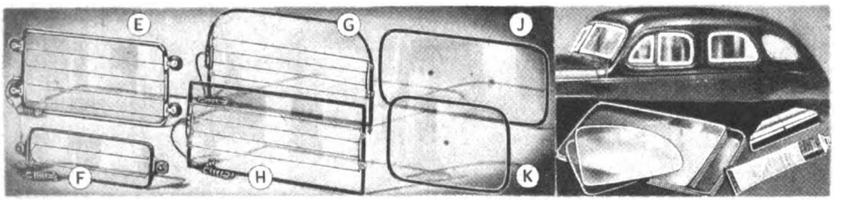
Ⓒ 2½-Amp. motor—self-oiling bearings. Built-in switch. Brown crackle finish. Mounts on dash, overhead, or on steering posts up to 1¾-in. diameter.

61 A 4923—With instructions. Ship. wt. 1 lb. 8 oz... **$1.59**

Economy 4-In., Single Speed Metal Defrosting Fan—$1.75 Value

Ⓓ Built-in switch. Brown crackle finish. 2½-amp. motor. Nickel plated fan. Enameled guard. Mounts overhead or on the steering column of cars with shift lever on floor.

61 A 4956—With instructions. Ship. wt. 1 lb. 12 oz... **$1.29**



Electric Defrosters 46c and up

Ⓕ **Bargain Model**—13 by 4½-in. glass with 2-wire nichrome heating element. Enameled steel frame, rubber suction cups, wire, terminals. Ship. wt. 1 lb. 6 oz.

61 A 4961. . . . . **46c**

Ⓔ **Best Quality**—Narrow steel frame offers little obstruction to vision. Rubber edge hugs windshield—gives a "sealed air" space—uses all the heat from the 4-wire nichrome heating element. With wire, terminals, vacuum cups, adhesive.

61 A 4980—13 by 6½-in. 2 cups. Wt. 2 lbs. **89c**
61 A 4982—16 by 8 in. 4 cups. Ship. wt. 2 lbs. 10 oz. **$1.49**

Sleet and Frost Shields For Windshields Windows 59c and up

Narrow-Edge Shields add to safety of winter driving by giving you clear vision. Narrow edges offer little obstruction to vision. Sticks on without cementing or taping. Positive seal maintains "dead air" space to keep windows from frosting. For windshield, side and rear windows. *Postpaid.*

Electric Type Sleet Shields

Melt sleet and ice on outside. Glass with heavy duty wire elements. Handy off-on switch on frame. Patented self-adjustable rubber gasket. Minimum space between frost shield and windshield permits lower wire temperature—uses less current.

(H) **61 A 4905**—Size 18 by 8 inches. With 4-wire heating element. Each. **$1.19**
(G) **61 A 4912**—Size 18 by 10 inches. With 4 wire heating element. Each. **$1.49**

Non-Electric Type Frost Shields

Made of clear unbreakable plastic. Adhesive sponge rubber seal. *Postpaid.*

(K) **61 A 4913**—Size 8 by 12 in. Each. . . . **59c**
(J) **61 A 4914**—Size 8 by 18 in. Each. . . . **69c**

Famous Clear-Vue Frost Shields 65c Set

- **Complete Set—For Windshield, Side and Back Windows.**

Set of 12 tissue-thin, transparent sheets. Cement direct to glass on inside of car—cover most of inside of windows and windshield. Keeps areas covered free of frost and condensation.

Ready-cut for windshield, front and rear door windows (including "no-draft" wings) and back windows. Set includes 2 amber sheets for back window which may be used in place of clear sheets to cut glare from headlights behind. No frames to obstruct driving vision. Do not interfere with operation of heater-defroster or fan-defroster for melting sleet and ice on outside of windshield. Will not discolor.

Complete with a new, improved clear adhesive that positively sticks tight. Handy rubber squeegee and simple instructions included make them easy to install. Ship. wt. 10 oz.

61 A 4950—Complete Kit. **65c**

Rubber Suction Cups

Made of soft black rubber. 1½-inch diameter. Complete with screw caps. Shipping wt. 3 oz.

61 A 4963—Pair. **9c**

Frost Shield Cement

For applying cement-on type frost shields above. 2-oz. bottle with dauber. Ship wt. 5 oz.

61 A 4906—Each. **23c**

Tube Style Defroster For Car Windshields 55c

Takes heat from hot water heater to windshield to melt sleet, snow and ice. Can also be used as a foot warmer—lay tube on floor. Fits all Wards, most other hot water heaters. 31-inch cloth covered flexible tube with hood that snaps on front of heater. Complete with vacuum cups for mounting nozzle on windshield.

61 A 5035—Ship. wt. 12 oz. **55c**



"Sure Heat" Pump for V-8 Fords $1.33

Ⓛ Makes hot water heaters in 1933-36 V-8 Fords up to 40% hotter. Action of water pump forces hot water through heater direct from cylinder head (the hottest part of motor). Replaces present water pump on right hand block. Includes pump housing and gasket—use impeller and shaft from old pump. Uses regular heater hose—order extra at right. When used with a pair of 61A5111 Heaterstats listed at right it gives best possible hot water heat on 1933-36 V-8 Fords.

61 A 5126—Ship. wt. 2 lbs. 12 oz. **$1.33**

"Y" Hose for V-8 49c

Ⓜ Taps both sides of motor—sends twice as much hot water through your heater! Ford owners report up to 40% more heat. Die-cast metal "Y" connection hose fitting. 4 hose clamps, 2 ft. of hose and instructions. For best results, use with a pair of Heaterstats listed at right. Easy to install. Ship. wt. 1 lb. 8 oz.

61 A 5125—"Y" Hose Outfit. Complete for 1932-36 V-8 Fords. **49c**

Heater Motor, Switches, Parts

Ⓟ **6-volt Motor.** Not for heaters with built-in defroster blowers. Diam. 2⅞ in. Length 2⅞ in. ¼-in. shaft. Center to center of mounting holes, 2⅝ in. With instructions.

61 A 5015—Wt. 1 lb. 10 oz. . . **$1.49**

Heater Switches—Rheostat (multi-speed) type. Illuminated. Wt. 6 oz.

(X) **61 A 5025**—Supreme Qual. **47c**
(W) **61 A 5010**—Standard Qual. **35c**
61 A 5012—Low Priced Switch. Non-illuminated type (Not Pictured). **17c**

Ⓝ **61 A 5002**—**Hose Clamps.** 15/16 in. Ship. wt. pair 2 oz. Pair. . . . **3c**
Ⓢ **61 A 5001**—**Hose Connector.** Ship. wt. 4 oz. Each. **6c**
Ⓤ **61 A 5003**—**Shut-off Valve.** Ship. wt. 7 oz. Each. **22c**
Ⓡ **61 A 5006**—**6-Inch Fan Blade.** Turns clock wise. Not for heaters having defroster blowers. Wt. 6 oz. **25c**

Heater Hose. Diam. inside ⅝ in.; outside 15/16 in. Ship wt. ft. 6 oz.

(T) **661 A 5051**—Reinforced with 2 plies of stout cotton fabric. Per foot. **9c**
(V) **661 A 5070**—1-ply Braid reinforced. Per foot. **5c**

Heat For Rear Seat $3.95

No more cold feet and chilly temperatures for rear seat passengers. This simple, inexpensive attachment answers the problem of heating the rear seat in 1935-41 cars. Built for use with Wards Supreme Quality (461 A 5047) and Standard Quality (461 A 5045) Hot Water heaters.

Easy to install. Wide, flat molded rubber tube, 42 in. long, that won't compress under normal foot pressure. Attaches to foot warming blower on side of heater—extends under floor mat and front seat to rear of car. Complete with connecting tubing (1⅝-in. inside diameter), fittings and deflector cap that sends heat to both sides of car. Instructions included.

61 A 5056—Ship. wt. 9 lbs. Complete. **$3.95**

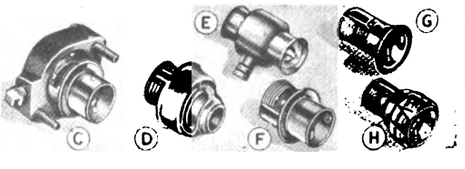


Quick-Acting Heaterstat $1.45

Ⓐ Gets hotter water to heater in half the time of ordinary thermostat. Water flows freely because thermostat mechanism is outside hose.

Can be set for summer or for the proper winter temperature to handle any type of anti-freeze. Fits hose lines that are 1¼ to 1¾-in. inside diameter and that have a clearance between radiator inlet and block connection of 2¾ in. or more. All brass, with extra large outlet to give extra water flow to heater at low speeds. With hose clamps, bushings, heater connection and shut-off plug. Wt. 12 oz.

61 A 5106—Each. **$1.45**



Use Heaterstats for Quick Heat—Most Heat

Two Types: *Regular* for use with volatile alcohol-base anti-freezes; *High Temperature* for use only with permanent anti-freezes.

(E) **61 A 5107**—**HOSE LINE Heaterstats** (Regular Type)—For hoses from 1¼ in. to 1¾ in. inside diameter. Complete with bushings, 2 hose clamps, heater connection and shut-off plug. Wt. 1 lb. . . **98c**
61 A 5135—High Temp. Type for above size hoses. Wt. 1 lb. . . **98c**

INSERT STYLE Heaterstats. Wt. 8 oz. except 5109, Wt. 9 oz.

(C) **61 A 5109**—Regular for Chev. 1929-32, Ea. 1933 Mas. **95c**
61 A 5110—Regular Type for Pontiac 1933-41. . . . . **57c**
61 A 5133—High Temperature Type for Pontiac 1933-41. . . . . **57c**
(D) **61 A 5117**—Reg. Type for Chrys., DeSoto 1935-39 (exc. Airflow); Hup. 1936-41; Plym. 1936-39 DeLuxe; Dodge 1935-39. . . . . **85c**
61 A 5119—High Temp. Type for same cars as 61 A 5117. . . . . **85c**
61 A 5118—Regular Type—Dodge, DeSoto, Chrys. 1940-41; Plymouth DeLuxe 1940; Plymouth P-12, 1941. . . . . **85c**
61 A 5120—High Temp. Type for same cars as 61 A 5118. . . . . **85c**
(F) **61 A 5108**—Regular Type for Buick 1933-41; Olds. 1935-41; Chev. Late 1933 Mast., 1934-41; Packard 1935-41, 120; 1937, 115; 1938-41, 110; Studeb. Champ. 1939-41. . . . . **57c**
61 A 5132—High Temperature Type for same cars as 61A5108. . . . . **57c**
(G) **61A5114**—Reg. Type—Ford 85, 1937-41; Mercury 1939-41*. **55c**
61 A 5130—High Temp. Type for same cars as 61 A 5114. . . . . **69c**
(H) **61A5111**—Regular Type for Ford 1932-36*; Zephyr 1940-41. . . . . **Std.**
61 A 5112—Reg. Type for Plym. 1933 all, 1934-40 Economy; Del. Roadking; Dodge, DeSoto, Chrys. 1930-33; Plym. 1941; Std. Plt.; Nash 1931-41; Studeb. 1937 Comm., 1939 Comm. Pres. **59c**
61 A 5134—High Temp. Type for same cars as 61 A 5112. . . . . **59c**

*2 Required on V-8 Ford, Lincoln-Zephyr and Mercury.

NEW UNDERSEAT HEATER





- **Heat Output Equals Underseat Heaters Sold for . . .**
- **Sends Equal Heat to Front and Back Seats of Sed . . .**
- **4-Way Brass Core—Sends Heat to Front, Back, . . .**
- **Heavy Steel Case. Brown Enameled Finish.**
- **Dash Mounting Switch is the Illuminated Two-S . . .**
- **Fits Most 1937-41 Cars—See Car Listing Below.**

The same type underseat heater as original equipment on . . . Delivers heat at floor level to *both* front and rear of car. . . . feet, then rises to create an even temperature throughout. . . . mounts on floor under front seat. Measures 11¾ by 12¾ . . . ends and 2⅝ in. high at center. Fits 1937-41 Cadillac, . . . Dodge, Ford, Plym., Pontiac, *DeSoto; 1938-41 *Packard; . . . Zephyr, Mercury; 1940-41 Buick, Oldsmobile, Willys; 19 . . . recommended for convertible cars. Instructions included. . . . *(*On 1939 Chev., 1940 Packard, 1941 DeSoto, part of seat ad . . . sacrificed.)*

461 A 5072—**Heater Only.** With Hose, Fittings, 2-Speed Switch. $16.95 Value. . . . . .

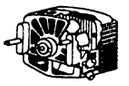
Defroster Unit Only. For use with underseat heater to defro . . . Mounts on dash. For *all* cars. A motor-driven heating unit . . . outlet that heats front of car. 3 amp. motor. SIZE: 5⅞ by 5⅜ . . . with hose, hose clamps, multi-speed switch, instructions. *Defro . . . tubes not included—see "Important Notice" below.*

561 A 5073—Defroster Unit. $8.95 Value. Ship. wt. 12 lbs. . . .
461 A 5074—Both Heater and Defroster. Wt. 32 lbs. $25.90 V . . .



SUPREME

- **Now! More Heat than Ever—Equals Heat . . . ly Sold Elsewhere for As Much As $18. . . .**
- **6-Direction Heat—Forward, Downward, To Right Side, To . . . To Windshield And To Driver's Feet.**
- **Triple-Flow Core—44 Oval Tubes 7 in. Long, ¾ in. Wide (8 . . .**
- **Mounts Flush Against Dash—Solid, Shakeproof Anchorage . . .**
- **Heavy Die-Cast Case—Crackle Finish with Chrome Plated . . .**
- **Illuminated Multi-Speed Dash-Mounting Control Switch . . .**





We know of no other Heater of this type that gives you so much . . . so many features. Handy front doors can be opened to give a fast . . . direct to passengers; can be closed when less heat is desired. O . . . sides, front and bottom give a steady flow of heat to floor and . . . car. Large 6¾-inch 6-bladed motor-driven fan forces a great v . . . through heater. Built-in blower gives powerful windshield defrost . . . warming. Powerful heavy duty 4½ amp. motor. Motor starts inst . . . speed even in below-zero weather. Big triple-flow tubular core in . . . most efficient type of all because water travels three times th . . . Automatic vent prevents air pockets. Overall size, 9½ in. wide, . . . Fits all cars and Pick-up Trucks. With hose, fittings, instructio . . . *tubes not included. See "Important Notice" below.* Ship. wt. 24 . . . Monthly on Time. See Inside Back Cover.

461 A 5047—Complete with Built-in Blower for Defrosting Windshield and Warming Feet. $18.95 Value. Cash. . . . . **$1 . . .**

STANDARD

- **Heat Output Equals That of Heate . . . Sold Elsewhere for As Much As $15.9 . . .**
- **4-Way Heat—Forward, Downward, to Windshield, to Dri . . .**
- **Triple Flow All Brass Core—44 Water Tubes 6¾ by ¾ in. . . .**
- **Heavy Die Cast Case—Crackle Finish—Chrome Plated . . . Revolving Doors. • Illuminated Dash Mounted Multi-speed . . .**





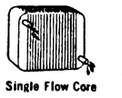
No dash mounting heater except Wards Supreme offers more c . . . gives you more features than this popular model. Water travels thr . . . brass core three times—radiates more heat, keeps car warmer. Auto . . . prevents air pockets. Openings at bottom keep feet warm. Powe . . . 6¾-in. motor-driven fan gains speed immediately, even on coldest . . . in blower defrosts windshield—warms feet. Has 4½ ampere motor, . . . and Pick-up Trucks. SIZE 8¾ in. wide by 10½ in. high. With illumina . . . speed switch, hose, fittings, instructions, and shakeproof mountin . . . *Defroster tubes not included—see "Important Notice" below.*

461 A 5045—Complete with Built-in Blower for Defrosting Windshield and Warming Feet. Ship. wt. 24 lbs. $15.95 Value. . . . **$ . . .**

COMMANDER

- **Equal in Quality to Heaters Us . . . Elsewhere for As Much As $10.95.**
- **3-Direction Heat—Forward, Downward, And To Windshield . . .**
- **Chrome Plated Revolving All-angle Deflectors.**
- **All Brass Core. 2¾ in. Thick. 44 Tubes, 6 in. by ¾ in. 44 Fins . . .**





Thicker brass core makes Wards Commander more efficient than . . . heaters. Automatic vent prevents air pockets. Has powerful built-in . . . blower. Six-inch 4-blade motor-driven fan starts instantly. 4 amp . . . Stamped steel case. Crackle finish. 9½ in. wide, 7¾ in. high. Fits all . . . Pick-up Trucks. With hose, fittings. Multi-speed Illuminated . . . driven fan. With hose, switch, fittin . . . *Defroster tubes not included—see "Important Notice" below.*

461 A 5042—Complete with Built-in Blower for Defrosting. Instructions. Ship. wt. 22 lbs. $10.95 Value. . . . . **$7 . . .**

MW HEATER

$8.95 Value. 2-way heat. Revolving all angle deflector. Single-flow 2-in. brass tubular heating core—42 tubes, 6 by ½ in. (38 fins). Automatic vent. Stamped steel case—crackle finish with chrome plated trim. 3 amp. motor., Multi-speed switch—not illuminated. 6-in. fan, hose fittings, instructions. For cars and Pick-up Trucks.

561 A 5029—9½ by 7¾ in. Ship. wt. 12 lbs. $8.95 Value. . . **$5.35**

ECONOMY

Heats like most . . . heaters. 2-in. cellu . . . core—economical to build, yet very . . . Automatic vent. Double Deflector . . . doors. 3 amp. motor. Black crackle fi . . . speed switch—non-illuminated. 6-in. . . . driven fan. With hose, switch, fittin . . . structions. For all cars and Pick-up T . . . Shipping weight 11 lbs.

561 A 5023—9½ in. high by 6¾ in. wide. $6.95 Value. . . . . **$3 . . .**

IMPORTANT NOTICE ABOUT ACCESSORIES FOR HOT WATER HEATERS

Tubes for connecting defroster to windshield not included with heaters. Order sep . . . rately from page at right. For best heater performance, install a Heaterstat liste . . . below. Heaters on 1936 and older V-8 Fords give more heat if connected with a "Y" . . . hose set, or "Sure Heat" pump listed below. *For Rear Seat Heating Attachment, See Below.*

SOUTH WIND GASOLINE HEATER

The Famous Nation . . . advertised Stewart-War . . . heater that **Heats Hot in 90 Seconds.** Produces its own heat by burning gasoline . . . it costs . . . than 1c an hour to operate. Completely safe—no danger of fumes. Combustion takes plac . . . sealed metal vacuum chamber—fumes pass out through exhaust. App. by Underwriters' Lab. . . .

The South Wind operates automatically. Electric igniter starts it—then shuts off. No . . . tinued battery drain. May be set for high or medium heat. Compact in design, it takes li . . . space. Has motor-driven fan, and special deflector which spreads heat through car. Co . . . complete with 2-stage built-in heat control, tubing, fittings. For Buick, 1935-41; Chevr . . . 1934-41; Chrysler, DeSoto, Dodge, 1935-41; Ford 1934-41; Hudson, LaFayette, Zephyr, Nash, Olds, Packard 1935-41, Plymouth, 1934-41; Pontiac, Studebaker 1935-41. **State mak . . . yea . model of car; also make of carburetor.** *Postpaid. Same Price Cash or Terms.* **$17.9 . . .**

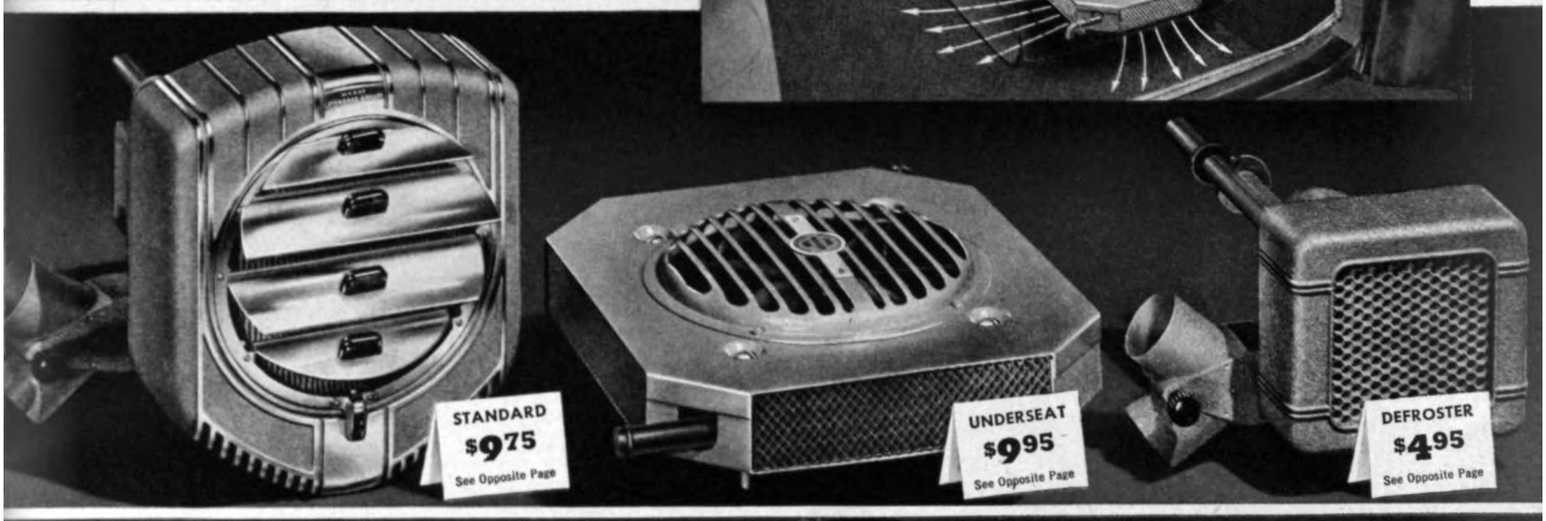
461 A 5026—South Wind Special. Size 8 by 5½ by 7½ in. deep. $2.50 Dn., $2.50 a Mo. . . .
461 A 5018—South Wind Senior. Size 9½ by 6 by 8½ in. deep. $3 Dn., $3.50 a Mo. . . . 22.50

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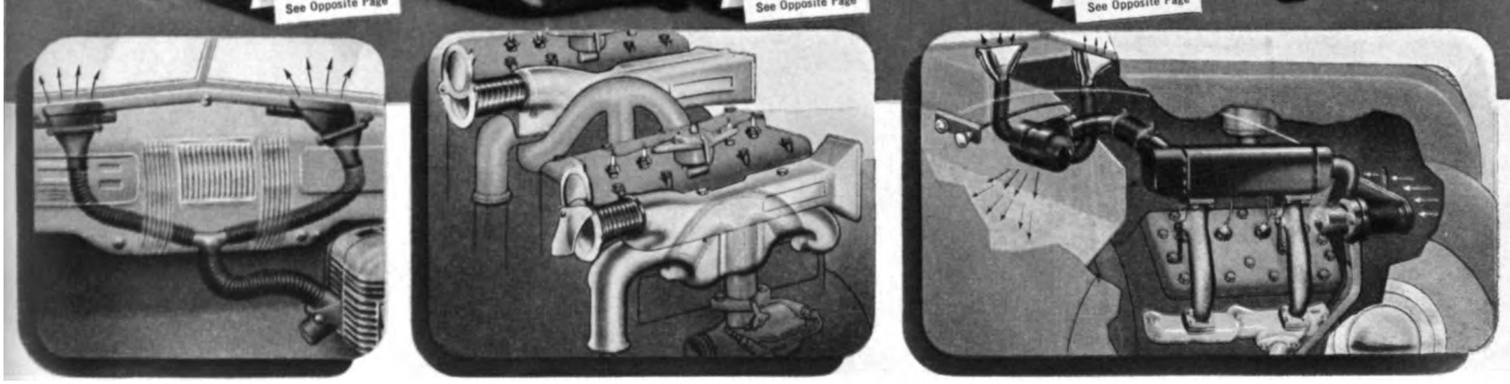
Save up to 50% of Dealer Prices for Equal Quality











Windshield Defroster Tube Kits Low as 89c

bing and fittings for connecting defroster let on any Wards Supreme, Standard, mmander Heaters or 561 A 5073 Deter Unit direct to windshield. **State ake, year, model of car or Pick-up Truck.** Ship. wt. bs. 12 oz.

A 5016—For Following Pass. Cars: 1937-39 Fords, 39 Mercury and most other 1937-39 cars with built-in froster opening in cowl (except those below) . . . $1.39

A 5055—For 1940 Ford Pass.; Trucks; Mercury. . . 1.59

A 5069—For 1941 Ford, Mercury Pass 1.85

A 5037—For 1938 Plymouth, Dodge, DeSoto, Chrysler ss.; 1938 Dodge trucks and Plymouth Commercial. $1.65

A 5038—For 1939-40 Plymouth, Dodge, DeSoto, rysler, and 1941 Plymouth Passenger Cars. $1.65

A 5068—For 1941 Dodge, DeSoto, Chrysler Pass. 89c

A 5054—For 1938-41 Chev., Pontiac, Buick, Olds., Salle, Cadillac Pass. Cars; 1938-40 Packard; 1938-41 evrolet Truck, and G.M.C. Trucks. $1.55

A 5071—For 1940-41 Hudson 1.79

A 5014—For cars and trucks without defroster openg in cowl. Fastens to windshield with vacuum cap 89c

Hot Air Heaters for Ford A-AA, BB

$1.10

"Lay-On" Heater for Ford A-AA and BB. (Pictured at top.) Does not replace manifold; simply clamps on over present engine manifold. Engine fan forces air through it where it is heated by hot manifold. Heat flows into car through deflecting register mounted on dash. Heavy cast iron; clamps on firmly. Removable in summer. Instructions.

561 A 5061—For Ford 1928-31 A-Pass. Cars and AA, BB Trucks. Ship. wt. 11 lbs. . . . $1.10

Genuine Auto-Lite. (Pictured at bottom.) Quick heating, easy to install. Much more efficient than "Lay-On" type at left because it consists of a special cast iron manifold with radiating fins that completely replaces regular Ford exhaust manifold. Register, fittings and tubings included. **$2.83**

Draft from engine fan forces *fresh outside air* through heating chamber into car. No fumes enter car. No drain on battery. Register mounts through dash. Adjustable deflector. Heat chamber may be readily removed from manifold for summer driving. Complete with instructions.

461 A 5085—For 1928-31 Ford A Passenger cars and AA-BB Trucks. Ship. wt. 23 lbs. $2.83

Auto-Lite Hot Air Heaters for Ford and Mercury

Hottest, quickest heating Manifold Heater for Ford V-8. Boiler-like tubes inside asbestos lined chamber absorb engine heat—change fresh outside air to 195° heat in 3 minutes at 25 m.p.h. on 85-h.p. Fords. Motor-driven blower fan with handy switch gives you abundant heat. Cast iron manifold replaces present manifold. Register, defroster and motor are controlled from dash. With switch, fittings, instructions. *Order defroster tubes, extra, at right.*

$9.39 $16 Value

Blower Equipped Heaters as Pictured.

461 AZ 5064—For 1941 Ford, Mercury. *Not for trucks.* Ship. wt. 31 lbs. $9.39

461 AZ 5066—For 1939 Ford DeLuxe and Mercury; 1940 Ford 85-h.p. and Mercury. *Not for trucks.* Ship. wt. 31 lbs. $9.39

461 AZ 5067—For Ford pass. 1933-36 all; 1937-38 all 85-h.p.; 1939 Std. 85-h.p. *Not Trucks* Ship. wt. 26 lbs. $8.35

Heaters Without Blower. Like at left, but with air scoop instead of blower. Not pictured. Ford only—not Mercury.

461 A 5090—For Pass. cars only: 1933-36 all; 1937-38 all 85-h.p.; 1939 Std. 85-h.p. Ship. wt. 24 lbs. $5.87

461 A 5091—For 1937-39 Model 60 Pass. Cars only. Ship. wt. 22 lbs. $5.87

Defroster Tubes for Hot Air Heaters

461 A 5065—For 461 A 5064 Heater at left. Double-tube kit for both sides of windshield. Ship. wt. 4 lbs. 4 oz. . $1.35

61 A 5081—For 461 A 5066 Heater at left. Double-tube Kit for both sides of windshield. Dash control included. Ship. wt. 4 lbs. 4 oz. $1.35

61 A 5082—For 5067, 5090 and 5091 Heaters for driver's side only. Shipping weight 4 lbs. 6 ounces. $1.49

CB AS WARDS 985

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How to Get Proper Fit Seat Covers

Give ALL Information Asked

1. State Model No. or Letters; also Make, Year of Car —(See listings for YEARS each seat cover fits).
2. State Type of Front Seats in Car—see Sketches below.
3. Don't Guess—Give Correct Information—See Your License Card, Title or Bill of Sale. Not for Trucks.

WARDS SEAT COVERS FIT ALL PASSENGER CARS

Be sure to state Make, Year and Model of Your Car; also State Type of Front Seat as Shown Here:



Type 1	Type 2	Type 3	Type 4	Type 5
2-door Sedan with Split Back, 1-piece Seat	2-door Sedan with Separate Seats	4-door Sedan, 1-piece Seats and Backs	Coupe with 1-piece Back	Coupe with 2-piece Back

SEAT COVERS FOR 1942 CARS!

Wards can supply seat covers for new 1942 cars almost as soon as you get your new car from dealer. Order any Ward cover at prices shown—Use Wards article number and state "1942 Model." Give all other information above.



Ready Made SEAT COVERS



$2.67 Coupe — 70% Coverage in Lacquered Fiber and Leather-Like Trim—Balance 7-oz. Cloth—Usually $8–$10 (Sedans) — **$6.75 Sedan**

- Extra Heavy Basket Weave Fiber—Harmonizes with All Car Interiors.
- Attractive Leather-Like Insert and Binding Trim—Tailored for Best Fit.
- Balance Extra Heavy Brown Cotton Cloth—Covers Back of Front Seat to Floor.
- Fiber is Finished in NEW Lacquered Process—a Lasting Protective Coating that Retards Fading and Resists Soiling Longer. Water-repellent—Sponges Clean Easily.
- Utility Pocket on Back of Sedan Front Seat With Handy Comb and Mirror Set.

Specially tailored for excellent fit and service. Cut and formed to shape of seats. Elastic side inserts on front seats where needed for good, smooth fit. Fiber extends over front edge of seat cushion—no seam on edge to wear or cause discomfort. With fasteners and instructions. Ship. wt. coupes, front seats, 5 lbs.; others 8 lbs.

State Make, Year, Model of car; also TYPE of front seats *(see above). Not for cars with rear seat center arm rest.*

FITS ONLY 1937-42 PASS. CARS

Body Style	Article No.	Set
Coupe with 1-piece Back Rest	61 A 4434	$2.67
Coupe, 2-Piece Back Rest (Not for auxiliary rear seats)	61 A 4435	4.08
2-Door Sedan—5-Pass. Coupe	61 A 4436	6.75
4-Door Sedan	61 A 4437	6.75
Front Seat Only—		
2-Door Sedan—5-Pass. Coupe	61 A 4438	4.08
4-Door Sedan	61 A 4439	4.08

Scuff Pads for Doors

Protect upholstery. For front or rear doors. Same fiber as covers above. Built in pocket fasteners. Size about 22 in. long. Ship. wt. pair, 2 lbs.

61 A 4406—Pair 95c

$1.67 Coupe — 44% Fiber Coverage—Balance 5-oz. Cloth—*Others Ask $5 to $7 (Sedans)* — **$4.29 Sedan**

A good quality Cover of medium heavy weight genuine fiber (not cheaper cotton imitation as in many so-called "fiber" covers). Fabric is water repellent—sponge clean. Cloth is medium weight cotton (5 oz. per sq. yd.). Pocket on back of sedan front seat. With fasteners and instructions. Wts. coupes, front seats, 4 lbs.; others 7 lbs. For 1942 cars see how to order above.

State Make, Year, Model of Car; also TYPE of Front Seat (See Above.) *Not for cars with rear seat center arm rest.*

FOR ALL PASS. CARS

Body Style	Art. No.	Set
Coupe, 1-piece Back, Coupe, 2-Piece Back Rest (Not for auxiliary rear seats)	61A4442	$1.67
2-Door Sedan and 5-Pass. Coupe	61A4443	2.79
4-Door Sedan	61A4444	4.29
Front Seat Only—	61A4445	4.29
2-Door Sedan and 5-Pass. Coupe	61A4446	2.79
4-Door Sedan	61A4447	2.79

Scuff Pads

For front or rear doors. Fiber—matches cover above. Pocket, fasteners. About 22 in. long. Wt. pair 2 lbs.

61 A 4405—Pair 85c

$1.19 Coupe — 32% Fiber Coverage Balance 4-oz. Cloth — **$2.89 Sedan**

$4 to $5 Quality (Sedans). Medium weight *genuine fiber* that looks better and outwears cheaper cotton imitation covers sold elsewhere as "fiber." Can be sponged clean. Cloth trim is cotton cover that weighs 4 oz. per sq. yd. Covers ¾ of back of sedan front seats. Elastic inserts where needed for smooth fit. Complete with fasteners and instructions. Ship. wts. coupes, front seats, 3 lbs. 2 oz.; others 5 lbs.

STATE Make, Year and Model of Car; also TYPE of Front Seats (see top of page). *Not for cars with rear seat center arm rest.*

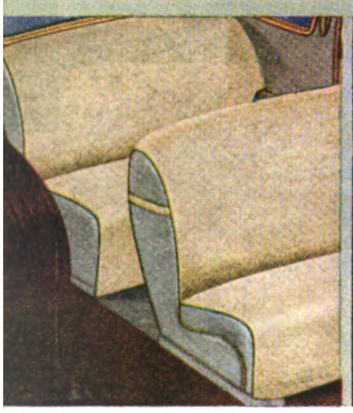
FITS 1940 AND OLDER PASS. CARS

Body Style	Article No.	Set
Coupe with 1-piece Back Rest	61 A 4400	$1.19
Coupe 2-piece Back Rest (Not for auxiliary rear seats)	61 A 4401	1.88
2-Door Sedan	61 A 4402	2.89
4-Door Sedan	61 A 4403	2.89
Front Seat Only—2-Door Sedan	61 A 4404	1.88

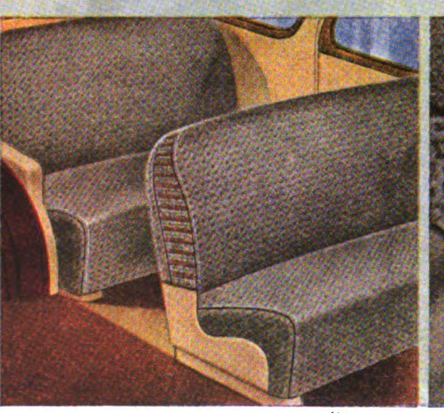
READY MADE CLOTH SEAT COVERS

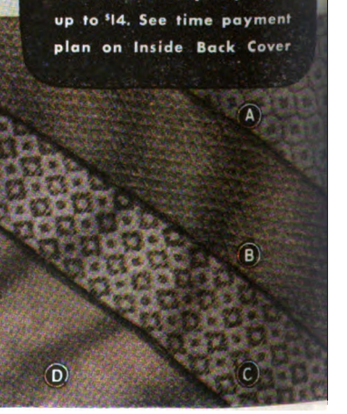
BUY ON TIME

$2 Down will buy any order up to $14. See time payment plan on Inside Back Cover









Sanforized Slip-on Covers . . . Tub Washable — **81c Ea.**

Handy to use. Economical to buy. Simply lay on over your regular car seat upholstery or over your seat covers to protect them from soiling. When used over soiled seats and seat covers they'll keep your light-color clothes clean.

Made of heavy, natural color Sanforized 100% American Cotton, 99¼% shrunk—can be tub-washed in soap and water just like sheets, table linen, etc. Elastic straps slip over seat back rests to hold covers in place. Ship. wt. each, 1 lb.

61 A 4144—For front seat—Coupes, 2-door Sedans (coaches) or 4-door Sedans; **State type of front seat.** (See top of page) 81c

61 A 4143—For rear seat on 2-door sedans (coaches) or 4-door Sedans. Not for cars with rear seat center arm rest.. 81c

986 WARDS CB A8

79c Coupe — 5-Ounce Cotton Material 100% Coverage — **$2.10 Sedan**

The smart styling and appearance you'll usually get only in covers others sell for $3 to $4 (Sedans). Covers all exposed parts of seats and back rests including back of sedan front seats. Medium heavy 100% American cotton (5-oz. per sq. yd.)—Not tub-washable. Single sewed seams with bar tacking at points of strain. Elastic inserts where needed for fit. With fasteners, instructions. Ship. wt.: Coupes, Front Seats, 2 lbs., Others 3 lbs.

STATE Make, Year, and Model of Car; also TYPE of front seats—see top of page. *Not for cars with rear seat center arm rest.*

FITS 1940 AND OLDER PASS. CARS

Body Style	Article No.	Set
Coupe with 1-piece Back Rest	61 A 4407	79c
Coupe, 2-piece Back Rest (Not for auxiliary rear seats)	61 A 4408	$1.29
For 2-Door Sedan—5-Pass. Coupe	61 A 4410	2.10
For 4-Door Sedan	61 A 4411	2.10
Front Seats Only—		
For 2-Door Sedan—5-Pass. Coupe	61 A 4409	1.29
For 4-Door Sedan	61 A 4412	1.29

$1.39 Coupe — 6½-Ounce Material — Others Ask $4 to $5 (Sedans) — **$3.75 Sedan**

Wards smartest, finest all Cloth Seat Covers—style, tailoring and fit of $4 to $5 covers offered elsewhere. Completely cover all seats and cushions including entire back of sedan front seats. Elastic inserts where needed make them fit smoothly. Heavy 100% American cotton (6½-oz. per sq. yd.). Not tub-washable. Pocket on back of sedan front seat. Double stitched seams and hems—bar-tacked at points of strain. Pin fasteners and instructions included. Ship. wt.: Coupes and Front Seats, 2 lbs. 12 oz.; others, 4 lbs. 8 oz

STATE Make, Year and Model of Car; also TYPE of front seats—see top of page *Not for cars with rear seat center arm rest.*

FITS ALL PASSENGER CARS

Body Style	Article No.	Set
Coupe with 1-piece Back Rest	61 A 4100	$1.39
Coupe with 2-piece Back Rest (Not for auxiliary rear seats)	61 A 4101	2.45
2-Door Sedan—5-Pass. Coupe	61 A 4103	3.75
4-Door Sedan	61 A 4104	3.75
Front Seat Only—		
2-Door Sedan—5-Pass. Coupe	61 A 4102	2.45

Seat Cover Materials by the Yard—Low As — **21c Yard "D"**

Made of sturdy 100% American cotton. For auto seats, furniture covers, etc. Not tub-washable. Can be dry-cleaned. Amount of Material Needed for Back Rests and Cushions: **In 54-In. Width**—for Coupe, 4 yards; for split back Coupe, 5 yards; for 2 or 4-door Sedan, 8 yards. **In 36-In. Width** order 50% more yardage.

- Ⓐ **661 A 4135—Heavy Weight** 56 in. wide. Ship. wt. 15 oz. Per Yard 53c
- Ⓑ **661 A 4145—Medium Heavy Weight.** 56 in. wide. Ship. wt. 13 oz. Per Yard 42c
- Ⓒ **661 A 4146—Medium Weight.** 56 in. wide. Ship. wt. 12 oz. Per Yard 35c
- Ⓓ **661 A 4147—Light Weight.** 36 in. wide. Covert cloth. Ship. wt. 8 oz. Per Yard.. 21c

Auto Seat Cover Pin Fasteners

Rustproof—made of brass. Self-locking notches keep pins in.

61 A 4543—Package of 12. Ship. wt. 1 oz.. 10c
2 Packages of 12 (24 pins). Ship. wt. 2 oz. . 18c

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The colors shown on these pages match the actual colors of the merchandise as closely as is possible with modern printing methods.

Tailor Made SEAT COVERS

Duplicates Car Dealers' $10 to $18 Seat Covers in Fit, Quality and Style

$4.35 Coupe — $8.75 Sedan

New DeLuxe Fiber and Cloth Seat Covers—Choice of 3 New Colors—Leather-Like Trim

New Lacquered Fiber on cushions and back rests. Extra heavy for long wear. Lacquered finish makes it spot and fade resistant, longer wearing and easier to sponge clean.

Heavy Weight Cloth covers all other exposed parts of seats. Cloth is closely woven cotton that weighs 7 oz. per square yard. Brown color on all patterns.

Attractive Leather-Like Trim used on top insert and corded welt seam binding. Maroon color on brown and maroon-plaid covers; blue on blue-plaid covers.

Individually tailor-made for YOUR car. Has the smart looks, the full protection, and the long wear of car dealers' covers sold for $10 to $12 (Sedans). Expertly made with double sewed seams throughout and bartacked strain points for long wear. Handy zipper opening pocket with comb and mirror set on back of sedan front seat. Necessary fasteners and instructions included. Ship. wts: Coupes 5 lbs.; others 8 lbs.

State Color wanted—(A) Brown; (B) Maroon Plaid; (C) Blue-Plaid. **Also state make, year and model of car and TYPE of front seats** (See facing Page).

Shipped from Factory in Richmond, Va. usually in 6 additional days. You pay postage from Mail Order House.

Fits Only 1939-42 Pass. Cars

	Article No.	Set
For Coupes		
With 1-piece back rest	M261 A 4492	$4.35
With 2-piece back rest (Not for auxiliary rear seats)	M261 A 4493	5.45
For Sedans Without Rear Seat Center Arm Rest		
2-door Sedan—5-Pass. Coupe	M261 A 4494	$8.75
4-door Sedan	M261 A 4495	8.75
For Sedans WITH Rear Seat Center Arm Rest		
2-door Sedan—5-Pass. Coupe	M261 A 4496	$9.85
4-door Sedan	M261 A 4497	9.85



Scuff Pads For Doors $1.29 Pair

For 1939-42 Pass. Cars

Use on front or rear doors. Made of fiber to match covers above. Built-in pocket. Fasteners included. Size about 22 in. long. Wt. pr. 1 lb. 8 oz. State car make, year, model.

STATE Color—(A) Brown; (B) Maroon-Plaid; (C) Blue-Plaid. **Shipped from Factory** in Richmond, Va. usually **in 6 additional days—you pay postage from Mail Order House.**

M261 A 4420—Pair..$1.29

$5.45 Coupe — $10.95 Sedan

New DeLuxe ALL-Fiber Seat Covers—Wards Finest Choice of 3 Color Patterns—Leather-like Binding Trim

New Lacquered Fiber—100% fiber coverage. No cloth used. Resists stretching — fits smooth longer. Completely covers back rests and cushions; also back of front seats in sedans to floor. Fiber is extra heavy for hardest wear. Lacquered finish makes it dirt resistant and easier to sponge clean. Also retards fading—colors stay bright longer.

Attractive Leather-Like-Dress-Up Binding on all exposed seams—edges lie flat for longer wear. Binding is maroon color Leather-like material on brown and maroon-plaid covers; blue leather-like material on blue-plaid covers.

The rich beauty of this individually tailored Seat Cover will improve the looks of your car—fits as smoothly and perfectly as the upholstery itself. Equals car dealers' $15 to $18 covers (Sedans). You'll like its full protection, its smooth finish that makes it easy to slide in and out. Well made with double and triple sewed seams. Zipper pocket with comb and mirror set on back of sedan front seat. With fasteners, instructions. Ship. wts.: **Coupes, 8 lbs.; others, 12 lbs.**

State Color wanted—(A) Brown; (B) Maroon-Plaid; (C) Blue-Plaid. **Also state make, year, model of car; TYPE of front seat** (see facing page). **Shipped from Factory** in Richmond, Va., usually in 6 additional days. You pay postage from Mail Order House.

Fit Only 1939-42 Pass. Cars

	Article No.	Set
For Coupes		
With 1-piece back rest.	M261 A 4484	$5.45
With 2-piece back rest (Not for auxiliary rear seats)	M261 A 4485	6.55
For Sedans Without Rear Seat Center Arm Rest		
2-door Sedan—5 Pass. Coupe	M261 A 4486	$10.95
4-door Sedan.	M261 A 4487	10.95
For Sedans WITH Rear Seat Center Arm Rest		
2-door Sedan—5 Pass. Coupe	M261 A 4488	$11.98
4-door Sedan.	M261 A 4489	11.98

TAILOR MADE COMPLETE INTERIOR SEAT COVERS



How to Order

When ordering Tailor-Made Complete Interior Covers, be sure to give following information from State License Card, title or bill of sale.

1. Make of car; Number of Cylinders?
2. Model; name; number or letter as: Packard 120; Plymouth PE; etc.?
3. Yearly Model (1936, etc.). Serial; Engine No. (Get this information from your state License Card, or from auto title or bill of sale?)
4. Body Style? (State coupe, coach, sedan, etc.)
   (A) Coupe: Standard, DeLuxe, Sport, Business: With Rumble Seat?
   (B) 2 or 4-door Sedan: Standard? DeLuxe? Master? Etc.
5. State if car has built-in trunk.
6. Type of Front Seat (See sketches at top of facing page).
7. Arm Rests: Front Door (one? both?). Rear Seat (Center? Side? or Both?)
8. Number of doors? Number of side windows? Straight or curved window molding?

For 1935 Plymouth, Dodge, Chrysler, DeSoto, Also State . . . . .

1. Length of rear side arm rest?
2. Is rear seat back-rest stationary or is it hinged to pull forward?
3. Does front seat side retainer which holds cushion in place almost touch floor or is it several inches above floor?

Fiber and Cloth Complete Interior Covers

Medium Fiber—5½-oz. Cloth

Coupe Low As **$5.15** Sedan Low As **$9.25**

(B) Fiber on seats and backs—balance cloth that weighs 5½ oz. per square yard. Strongly sewed and bar-tacked. Fiber is water repellent treated—can be sponged clean. Ship. wt. 2-pass. Coupe, 5 lbs.; Others 9 lbs. See "How to Order."

Body	Article No.	Set
For All 1936-42 Cars		
2-Pass. Coupe	M261A4150	$5.98
4-Pass. Coupe	M261A4151	10.39
2-Door Sedan	M261A4151	10.39
4-Door Sedan	M261A4152	10.65
For All 1931-35 Cars		
2-Pass. Coupe	M261A4153	5.15
4-Pass. Coupe	M261A4154	9.25
2-Door Sedan	M261A4154	9.25
4-Door Sedan	M261A4155	9.89

Heavy Fiber—7-oz. Cloth

Coupe Low As **$5.98** Sedan Low As **$10.59**

(A) Fiber on seats, backs — balance cloth that weighs 7 oz. per sq. yd. Fiber is **New Lacquer coated**—spot and dirt resistant, easy to sponge clean right in car. Wt. 2-pass. Coupe, 7 lbs.; Others 12 lbs. See "How to Order."

Body	Article No.	Set
For All 1936-42 Cars		
2-Pass. Coupe	M261A4162	$6.89
4-Pass. Coupe	M261A4163	11.85
2-Door Sedan	M261A4163	11.85
4-Door Sedan	M261A4164	12.59
For All 1931-35 Cars		
2-Pass. Coupe	M261A4165	5.98
4-Pass. Coupe	M261A4166	10.59
2-Door Sedan	M261A4166	10.59
4-Door Sedan	M261A4167	11.30

All-Cloth Complete Interior Covers—100% American Cotton

Medium Weight 5-oz. Cloth

Coupe Low As **$2.85** Sedan Low As **$4.95**

(D) Durable Cotton cloth—weighs 5 oz. per square yard. Strongly sewed with bar-tacked construction at all strain points. Attractive small figured pattern. Not tub-washable. Ship. wt. 2-pass. Coupe, 3 lbs.; Others, 6 lbs. See "How to Order."

Body	Article No.	Set
For All 1936-42 Cars		
2-Pass. Coupe	M261A4156	$3.29
4-Pass. Coupe	M261A4157	5.49
2-Door Sedan	M261A4157	5.49
4-Door Sedan	M261A4158	5.98
For All 1931-35 Cars		
2-Pass. Coupe	M261A4159	2.85
4-Pass. Coupe	M261A4160	4.95
2-Door Sedan	M261A4160	4.95
4-Door Sedan	M261A4161	5.45

Heavy Weight 6½-oz. Cloth

Coupe Low As **$3.59** Sedan Low As **$6.59**

(C) Extra strong cotton cloth — weighs 6½ oz. per square yard. Double sewed construction —strongly bar-tacked at all strain points. Not tub-washable. Ship. wt.: 2-pass. Coupe, 4 lbs.; Others 7 lbs. See "How to Order."

Body	Article No.	Set
For All 1936-42 Cars		
2-Pass. Coupe	M261A4274	$4.80
4-Pass. Coupe	M261A4275	7.19
2-Door Sedan	M261A4275	7.19
4-Door Sedan	M261A4276	7.69
For All 1931-35 Cars		
2-Pass. Coupe	M261A4277	3.59
4-Pass. Coupe	M261A4278	6.59
2-Door Sedan	M261A4278	6.59
4-Door Sedan	M261A4279	7.19

TAILOR MADE FOR SEATS, DOORS AND SIDES

Complete interior upholstery protection right up to the window line. Covers all seats, back rests, back of front seats, doors and both sides of car, including arm rests. Individually made to order from accurate patterns of the same car model as yours. Same tailoring and perfect fit for which you would pay $3.00 to $9.00 more a set. All pieces marked for quick installation—no special tools needed. Instructions and pin fasteners included. *Shipped separately from Factory* in Richmond, Va., usually in 6 additional days. You pay postage from our Mail Order House.

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WHICH BRUSH SHALL I BUY?

Chinese Bristles — Horse Hair

Longer Bristles for Longer Life and Faster Work — More Bristles Hold More Paint, Produce Smoother Flow — Cleaner Bristles—No Dirt to Mar Finish — Set In Rubber—Bristles Can't Come Out — Flag End Bristles—Smoother Work, No Brush Marks — Brush Keeper Included. Length Life of Brush

WHETHER you select a ½-inch enamel brush at 9c or a 4½-inch paint brush at $6.50, you get but one quality of bristle at Wards—100% pure Chinese Hog Bristles. Not a single strand of substitute bristle is mixed in! (4 special-purpose brushes below require special bristle; bristle content is stated in each case.)

However, bristle content is not the only factor. These Brushes differ in width. (The correct width for each job is stated below and at left.) And they differ in length. The longer the bristle, the more you pay—but greater length gives flexibility and smoothness. As size increases, the quantity of bristle is also increased—thus the larger, brush more paint, speed your work, and last longer.

The enamel and varnish brushes are chisel edged to permit a smoother flow of paint and to help prevent laps. Brushes for painting large surfaces have blunt edges to make it easier to work paint into the surface. If you want a brush for occasional use, we recommend a medium length. But if you make your living with a brush, you know the "feel" of a really fine brush; you know that every additional cent you spend now will add that much more pleasure to your painting, and will produce finer jobs.

USE INDOORS OR OUT

For Painting Large Surfaces



Home Owner's Paint Brush

Fine quality home owner's Brush—equals brushes sold for up to $4.95. Use it for houses, barns and other large areas where a speedy, flexible, long-wearing brush is wanted. Read the facts about bristle quality above at right. Ship. wts., 9, 10, 14 oz.

Article No.	Width	Bristles	Each
P75 A 699	3 in.	3⅜ in.	$1.47
P75 A 700	3½ in.	3 11/16 in.	1.98
P75 A 701	4 in.	4 in.	2.98

$4.95 Quality

$2.98 4-Inch

Ⓐ 4-INCH **89c** — Ⓑ 4-INCH **$1.39** — Ⓒ 4-INCH **$2.29** — Ⓓ 4-INCH **$4.59**

Brushes below are to be used for outside house painting and for applying interior flat wall paint. They vary from 2½ to 4½ inches in width. The size of the surface you intend to paint determines the width you should use. Use 2½, 3, 3½ or 4-inch brushes for painting interior walls and outside trim. Use the 4 and 4½-inch brushes for painting outside walls. The widest brush is usually the fastest—use the widest brush that is appropriate for the kind of surface you wish to paint.

Ⓐ Use where a fast working brush is not essential. Good for occasional jobs.

Article No.	Width	Bristles	Ship. Wt.	Each
P75 A 351	2½ in.	2⅜ in.	8 oz.	53c
P75 A 352	3 in.	2⅜ in.	9 oz.	63c
P75 A 353	3½ in.	2¾ in.	10 oz.	75c
P75 A 354	4 in.	3 in.	11 oz.	89c

Ⓑ Good, low priced Brush—adequate bristle length for most household purposes.

Article No.	Width	Bristles	Ship. Wt.	Each
P75 A 704	3 in.	3 in.	9 oz.	83c
P75 A 705	3½ in.	3 in.	11 oz.	99c
P75 A 706	4 in.	3⅜ in.	12 oz.	$1.39

Ⓒ Nowhere else, so far as we know, has a 4-in. Brush of this quality been offered at this low price. Bristles are 3¾ inches long. Holds enough material for easy painting on most jobs.
P75 A 702—4-in. Ship. wt. 12 oz. **$2.29**

Ⓓ Finer, professional quality—ideal for most house or barn painting jobs and a good brush for the experienced painter to keep on hand.

Article No.	Width	Bristles	Ship. Wt.	Each
P75 A 376	3 in.	4 in.	11 oz.	$2.69
P75 A 377	3½ in.	4¼ in.	12 oz.	3.79
P75 A 378	4 in.	4½ in.	1 lb.	4.59
P75 A 204	4 in.	5 in.	1 lb. 4 oz.	5.50
P75 A 205	4½ in.	5¼ in.	1 lb. 6 oz.	6.50

CHISEL-EDGE BRUSHES

For Varnishing or Enameling

75c Quality

44c 2⅛-Inch

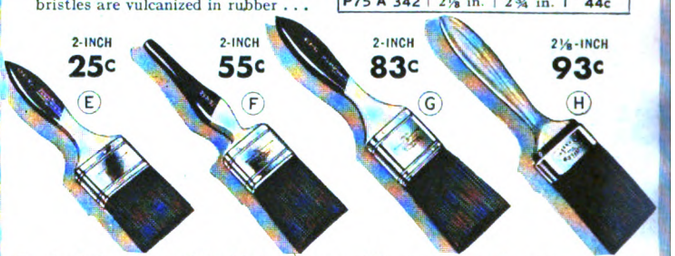


Wards Varnish and Enamel Brushes Have Chisel Edges for Finer Work

Economy Varnish Brush

A 75c Value for 44c! Made for the home owner who desires a moderately priced, dependable, easy working Brush for small varnish, enamel and lacquer jobs. The 100% pure Chinese bristles are vulcanized in rubber . . . won't come out. Chisel Edges for better work. Ship. wts.: 4, 5 and 6 oz.

Article No.	Width	Bristles	Each
P75 A 340	1⅛ in.	2⅛ in.	22c
P75 A 341	1½ in.	2¼ in.	25c
P75 A 342	2⅛ in.	2¾ in.	44c



Ⓔ 2-INCH **25c** — Ⓕ 2-INCH **55c** — Ⓖ 2-INCH **83c** — Ⓗ 2⅛-INCH **93c**

Brushes below are carefully chisel edged to avoid laps and to get into corners easily.

Ⓔ Excellent household brushes.

Art. No.	Width	Bristle	Wt.	Each
P75 A 300	½ in.	1½ in.	3 oz.	9c
P75 A 321	1 in.	1⅞ in.	4 oz.	10c
P75 A 322	1½ in.	1⅞ in.	4 oz.	14c
P75 A 327	2 in.	2 3/16 in.	5 oz.	25c
P75 A 328	2½ in.	2 3/16 in.	5 oz.	33c
P75 A 329	3 in.	2⅜ in.	6 oz.	45c

Ⓕ Finer Brushes—longer bristles.

Art. No.	Width	Bristle	Wt.	Each
P75 A 651	1½ in.	2¼ in.	5 oz.	33c
P75 A 652	2 in.	2 5/16 in.	6 oz.	55c
P75 A 653	2½ in.	2 13/16 in.	7 oz.	66c
P75 A 654	3 in.	2⅞ in.	8 oz.	88c

Ⓖ Longer bristles for faster work and longer life. More bristles than in brushes Ⓔ at left. Thickly set bristles to hold more paint, make frequent dipping unnecessary.

Article No.	Width	Bristle	Ship. Wt.	Each
P75 A 478	2 in.	2 15/16 in.	7 oz.	79c
P75 A 479	2½ in.	3 3/16 in.	9 oz.	$1.19
P75 A 480	3 in.	3 3/16 in.	10 oz.	1.65

Ⓗ Excellent for varnish and enamel. Heavy nickel plated ferrules, varnished handles.

Article No.	Width	Bristle	Ship. Wt.	Each
P75 A 444	2⅛ in.	2⅞ in.	7 oz.	89c
P75 A 445	2½ in.	3⅛ in.	9 oz.	$1.29
P75 A 446	3⅛ in.	3⅜ in.	10 oz.	1.79

FINEST PROFESSIONAL QUALITY BRUSHES

These Brushes have longer, more flexible bristles. Built to Master Painters specifications, they are better than low priced brushes because they contain more and longer bristles and therefore hold more paint. If you make your living with a brush, choose from this assortment.



5½-INCH **$5.95** — **$12.95** CASH — **$10.75** 7-INCH

Flatting Brush

Full professional style stock. Bristle lengths: 4 in., 4¼ in.
P75 A 546—5½x1⅜-in. block. Ship. wt. 1 lb. 2 oz. **$5.95**
P75 A 547—6x1½-in. block. Ship wt. 2 lbs. **7.95**

Dutch Kalsomine

Wards Finest Kalsomine Brush! Others ask $17 to $23. Four rows 100% pure Gray Russian Bristles 3 in. long; 7¼ by 2¾-in. block.
P75 A 537—Wt. 2 lbs. .. **$12.95**

Flat Kalsomine

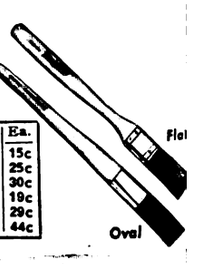
Same quality sells for $16 to $18 elsewhere! Galvanized iron ferrule. 5½ and 5¾-in. bristles. Wts.: 1 lb. 10 oz.; 2 lbs. 2 oz.
P75 A 567—7 in. wide.... **$10.75**
P75 A 568—8 in. wide.... **12.45**

SASH BRUSHES

BUY ON TIME AND BUY THE BEST BRUSH

You can probably include a first quality brush in your Time Payment Paint Order without increasing your Monthly Payments. See Inside Back Cover for Wards Time Payment Plan.

It is easier to cut in clean and sharp when painting sash or trim with these Sash Brushes. Carefully chiseled edges that won't splatter over adjoining surfaces or cause laps. Oval or flat type, whichever you prefer.



Article No.	Type	Width	Bristles	Wt.	Ea.
P75 A 510	Oval	½ in.	1⅞ in.	4 oz.	15c
P75 A 511	Oval	¾ in.	2 in.	5 oz.	25c
P75 A 512	Oval	1 in.	2¼ in.	6 oz.	30c
P75 A 607	Flat	1 in.	2⅛ in.	5 oz.	19c
P75 A 608	Flat	1½ in.	2¼ in.	6 oz.	29c
P75 A 609	Flat	2 in.	2⅝ in.	7 oz.	44c



1½-INCH **55c** — 3-INCH **$2.19** — 3½-INCH **$5.75**

Sash Brush

Professional quality. 2¾ and 3-in. bristles. Good cup chisel edge for easy cutting in.
P75 A 541—1½ in. wide. Shipping weight 7 oz. 55c
P75 A 542—2 inch wide. Shipping weight 8 oz. 75c

Enamel Brush

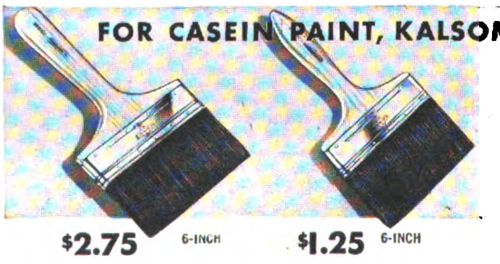
Wards finest! For walls and woodwork. Bristle lengths: 3½ inches, 3¾ inches. Shipping weights 12, 15 oz.
P75 A 550—3 in. wide..... **$2.19**
P75 A 551—3½ in. wide..... 3.59

Stucco Brush

4¾ in., 5 in., 5¼-in. bristles. Wts. 1 lb.; 1 lb. 4 oz.; 1 lb. 6 oz.
P75 A 346—3½ in. wide.... **$5.75**
P75 A 344—4 in. wide..... 6.95
P75 A 345—4½ in. wide..... 8.15

Duster

Best quality knotted mixed bristle 3½ in. long. Set in 4¼x1⅛ in. hardwood block—clear lacquered hardwood handle. (No brush keeper included.) Shipping weight 8 oz.
P75 A 523.....**$1.79**



$2.75 6-INCH — **$1.25** 6-INCH

Flat Kalsomine Brush

A fine Brush for home owner's use. Ship. wts.: 1 lb. 4 oz.; 1 lb. 8 oz.; 1 lb. 12 oz. Widths 6, 7 and 8 inches. Can also be used for paste or paint.

Article No.	Bristles	Each
P75 A 520	3⅜ in.	$2.75
P75 A 521	3¾ in.	3.50
P75 A 522	3⅞ in.	4.75

All Purpose Brush

A good general purpose Brush for paint, kalsomine, paste, etc. Very satisfactory for home use where there is a wide variety of small jobs because it is long lasting and inexpensive. Bristles are 3⅛ inches long. Bright metal ferrule. Width 6 inches. Shipping weight 1 lb.
P75 A 958—Each..... **$1.25**

FOR CASEIN PAINT, KALSOMINE, ETC.



65c

Whitewash Brushes

Home Owner's Quality. Mixed horsehair, Chinese and fiber bristles. For smooth, even work. 3 by 7-in. hardwood block. (No brush keeper included.)
P75 A 499—Ship. wt. 1 lb. 6

Bargain Quality. (Not shown.) 3-in. White fiber bristles in 8-in. block. (No brush keeper.)
P75 A 500—Ship. wt. 14 oz. 25

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Which Quality Tools Should I Buy?

Wards offer 3 grades of tools: **GOOD**—*Eclipse Quality*; **BETTER**—*Lakeside Quality*; **BEST**—*Master Quality*. Buy the grade that best suits your needs. We state facts—do not over-praise Eclipse so that you wonder how our Lakeside or Master could be better. Read about these qualities, with examples, below.

GOOD ECLIPSE QUALITY

If you use tools only occasionally—do not want to spend much money—we recommend *Eclipse Quality*. Naturally, an *Eclipse Quality* plane at $1.25 does not have the balance, inlaid crucible steel cutter, or ribbed frame of our $3.45 *Master Quality* plane but it has a heavy cast body and steel cutter adjustable for depth and leveling. We don't want you to think they're fine carpenter's tools but for planing a door, or table, or other odd jobs, *Eclipse Quality* tools are GOOD tools.

BETTER LAKESIDE QUALITY

For a better-than-average job—smoother finish with greater ease and speed, we recommend *Lakeside Quality*. Better designed and made, these tools cut smoother, stay sharp longer. The *Lakeside Quality* plane, for example, has a forged steel tempered cutter, sides and bottom are ground true and highly polished. Many professional craftsmen have found that *Lakeside Quality* tools meet their requirements—only finest professional tools such as Wards Master and famous Nationally Advertised top grades exceed them in quality.

BEST MASTER QUALITY

If you take pride and pleasure in using "Nothing but the Best"—like skilled master carpenters, mechanics, plumbers—we recommend *Master Quality*. These tools are made in America's most famous factories and represent perfection in design, construction, and long life. Many of Wards BEST tools have special, exclusive features. For example, the *Master Quality* plane at $3.45 has an inlaid Crucible Tool Steel cutter—none finer regardless of price—longer lasting edge, more easily resharpened than usual one-piece cutters. Sides and bottom are precision machined, trued, polished. Plane has Rosewood knob and handle shaped to fit your hand. Men who earn their living with tools—whose experience teaches them the BEST costs less—value considered—buy Wards *Master Quality* Tools! Wards also carry in many lines tools of Nationally Advertised quality, which are also BEST, equal in every respect to Wards own *Master Quality*.

BUY THE BEST ON WARDS TIME PAYMENT PLAN

See what $2.50 per Month will buy—here's an assortment of *Master Quality* tools anyone would be proud to own. Or make your own selections. Send $2.50 Down Payment and use these fine tools while you pay. You can choose any list of items with a total value up to $18.00 on these same convenient terms.

84 A 438—Plane	$3.45
84 A 1234—Brace, Bits	6.60
84 A 1511—Hammer	1.25
584 A 26—26-in. Saw	2.98
584 A 2756—19-in. Tool Box	1.65
584 A 2058—28-in. Level	1.15
Only $2.50 a Month for total	17.08

See Inside Back Cover for Details.



Eclipse Quality Hammer

Why pay 50c Elsewhere? With tempered drop forged carbon steel head. Usual price of "easily broken" cast iron. Black forge finish with polished bell face. Stained hickory handle (not ordinary hardwood). Double steel wedges prevent loosening. Claws pull nails easily. Size 1½-oz. head. Ship. wt. 2 lbs.

35c

84 A 1544—Each.....35c

Lakeside Quality Hammer

Why Pay 85c Elsewhere? Drop forged high carbon steel—heat treated and tempered. Straight grain hickory handle driven into head—secured with 2 steel wedges. Polished sides, claw, face. Neck and under claws Black. Size 1½. 16-oz. head. Ship. wt. 2 lbs.

65c Claw

84 A 1531—Claw Hammer...65c
84 A 1530—Rip Hammer.....65c

Wards Special Quality

Why Pay $1.75 Elsewhere? Forged Vanadium Steel—heat treated and tempered. Polished bell face; octagon neck. Clear lacquer finish white hickory handle—octagon neck—end that goes in head is shrinkproof. Two tapered corrugated wedges prevent head from loosening. Claw type Hammer. Size 1½. 16-oz. head. Ship. wt. 2 lbs.

98c

84 A 1518—Each.....98c





WARDS MASTER QUALITY

In the end the "Best" costs less—value considered. You can take real pride in owning and using the Hammer used by men who make their living with tools. Buy a Wards *Master Quality* Hammer—equal to $2.25 and $2.50 Hammers in everything but price. *Here's Proof:*

Vanadium Alloy Steel Head—pounded and shaped by half-ton drop forged hammer. Super heat-treated to make it twice as strong as ordinary steel. Face and claws individually hardened and tempered—to make them tougher. End of handle pre-shrunk by oil treatment—then driven into head under pressure and wedged so head can't fly off—see detailed picture above right.

Beveled Claws Correctly Shaped to give maximum leverage—you can pull smallest brad or large spike with ease. See picture above right.

Attractive Design—octagon shaped poll and neck—mirror polished. Second growth straight grain hickory handle—thoroughly seasoned—octagon neck, tapered and flared at end for slipproof grip! Clear lacquer finish. Size No. 1½ claw hammer for general work most popular size and style; lighter weight No. 2 for cabinet work; Size No. 1½ and 1 rip hammers for ripping siding, flooring, etc. Shipping weight each hammer 2 lbs.

Article No.	Style	Size	Wt. of Head	Price
84 A 1517	Claw	2	13 oz.	$1.15
84 A 1511	Claw	1½	16 oz.	1.25
84 A 1515	Rip	1½	16 oz.	1.29
84 A 1520	Rip	1	20 oz.	1.39

Master Quality Size 7/0 — **55c**

Forged, tempered, polished carbon tool steel heads. White hickory handles securely wedged.

84 A 1564—State size.

Size No.	Head Wt.	Each
7/0	2 oz.	55c
5/0	4 oz.	59c
3/0	8 oz.	65c
2/0	12 oz.	69c
0	16 oz.	75c
1	20 oz.	85c
2	24 oz.	98c
3	28 oz.	$1.05
4	32 oz.	1.15

Master Quality Size 1 — **$1.10**

Forged, tempered, polished carbon tool steel heads. White hickory handles securely wedged.

84 A 1547—State size wanted.

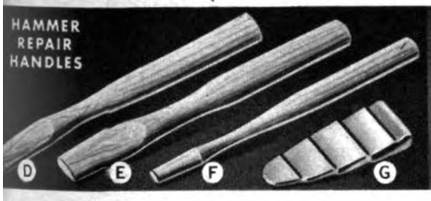
Size	Head Wt.	Ship. Wt. Lbs.	Ship. Wt. Oz.	Price Each
1	1½ lbs.	2	2	$1.10
2	2 lbs.	2	10	1.19
3	2½ lbs.	3	2	1.25
4	3 lbs.	3	10	1.35

Avoid Smashed Fingers Eclipse — **19c**

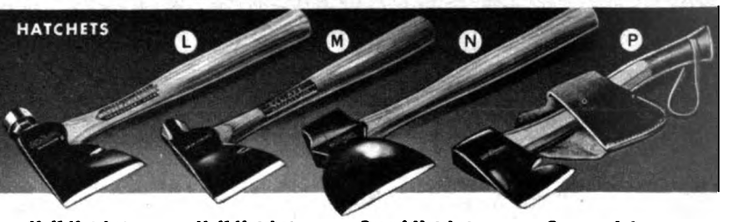
Magnetized head, split end holds tacks quickly, properly for fast accurate driving. Hardwood handle—sturdy, securely wedged. A worthwhile tool for home or professional use. Add one to your order.

Lakeside Quality. Drop forged steel head. Ship. wt. 8 oz.
84 A 1527—Each.....45c

Eclipse Quality. Cast iron head.
84 A 1526—Ship. wt. 12 oz....19c







Eclipse Quality. Good quality seasoned hickory, handles.
Lakeside Quality. Seasoned hickory—polished smooth.
Master Quality. Select, seasoned, straight grain hickory—smooth natural finish—easy on your hands. Comfortable grip.

(D) **Standard Hammer Handles.** Ship. wt. 10 oz.
84 A 1560—**Eclipse Quality.** Oval shape. Length 14 in. Each.....5c
84 A 1561—**Lakeside Quality.** Oval shape. Length 14 in. Each.....9c
84 A 1563—**Master Quality.** Octagon shape. Length 14 in. Each.....18c

(E) **Lakeside Quality—for Ball Pein Hammers—state size of head.**
84 A 1568—14 in. long fits size 2/0 and smaller. Ship. wt. 7 oz. Each.....14c
84 A 1567—16 in. long for numbers 0, 1, 2, 3, 4 hammers. Ship. wt. 10 oz. Ea.14c

(E) 84 A 1676—**Hatchet Handles.** Length 15 in. Ship. wt. 12 oz.....10c
84 A 1677—**Broad Hatchet Handle.** 17 in. Wt. 12 oz....12c

Blacksmiths' Hammer Handles
84 A 1562—**Lakeside Quality.** 16-in. for size 1, 2; 18-in. for size 3, 4. Wt. ea. 12 oz. State size. Ea.....15c

(G) **Grady Type Steel Wedges.** Ship. wt. pair, 2 oz.
84A1742—**For Hammers and Hatchets.** 2 for 4c; 6 for...10c
84 A 1741—**For Ball Pein Hammers.** State size hammer. 2 for..4c; 6 for 10c
84 A 1743—**For Axes.** State size axe. 2 for.....7c

Steel Wrecking Bars

(H) **Master Quality.** High carbon tool steel. Tempered claws, bit. Black. Hexagon shape.
Eclipse Quality. Forged steel. Octagon shape.

Master	584 A 2390	484 A 2391	484 A 2392
Size, In.	⅝ by 18	¾ by 24	¾ by 30
Ship. wt.	2 lbs.	4 lbs.	5 lbs.
Each	42c	55c	65c
Eclipse	**584 A 2389**	**484 A 2386**	**484 A 2387**
Size, In.	½ by 12	¾ by 24	¾ by 30
Ship. wt.	1 lb. 6 oz.	4 lbs.	5 lbs.
Each	9c	25c	29c

(J) **Nail Pullers.** Open crates, etc. One easy stroke pulls nails. Jaws, shank forged special analysis steel. Non-slip sure-bite jaws. Safety hand guard. 18 in. long.
584 A 2383—Ship. wt. 4 lbs. 8 oz.....$1.35

(K) **Nail Sets.** Tempered steel; square head; knurled grip. Sizes: 5/32, 3/32, 1/32. 4 in. long.
84 A 1118—Set of 3 sizes above. Wt. 10 oz.27c
84 A 1112—Any one of above sizes. Ship. wt. 4 oz. State Size. Each.....10c

Half Hatchet — **$1.29**

(L) **Master Quality.** *$1.75 Value!* Drop forged, tough Vanadium Steel—heat treated and tempered—twice as strong as ordinary steel. Thin blade with handy beveled nail slot. Size 2 with 3⅜-inch cut. Highly polished bit and poll. Ebony Black finish head—rust-resisting. Select, straight-grained White Hickory handle—octagon neck. Steel wedged head can't fly off. Ship. wt. 2 lbs. 14 oz.
84 A 1647...$1.29

Half Hatchet — **69c**

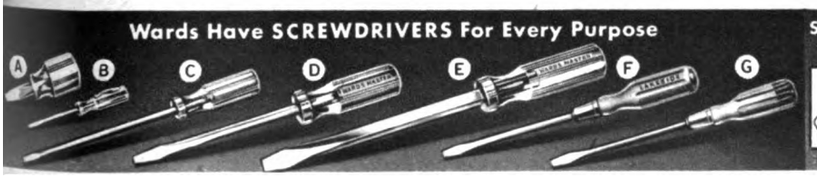
(M) **Eclipse Quality.** Made of drop forged, hardened and tempered tool steel head. Blade has handy beveled nail slot. Size 1 with 3¼-inch cut. Polished bit. Black rust-resisting finish head. Stained second growth, straight grain hickory handle—securely fastened in head with steel wedges so head can't fly off. Shipping weight 2 pounds.
84 A 1649...69c

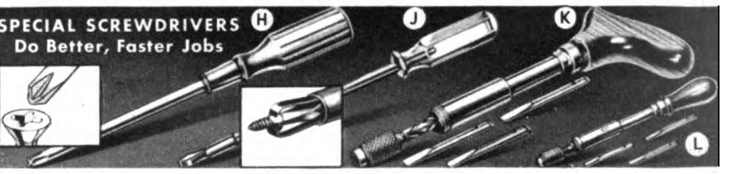
Broad Hatchet Size 2 — **$1.50**

(N) **Master Quality.** Drop forged high carbon tool steel—heat-treated and tempered. Black finish. Polished bit. Select, seasoned white hickory handle. Ship. wts. 3 lbs. 6 oz.; 3 lbs. 10 oz. State size.
84 A 1652—
Size 2. 4½-inch Cut. Each.....$1.50
Size 3. 5-inch Cut. Each.....1.65
84 A 1651—**Eclipse Quality** Tempered forged steel; black finish. Hickory handle. Ship. wt. 3 lbs. 6 oz. Size 2. 4½-in. Cut. $1.09

Campers' Axe — **95c**

(P) **Master Quality.** Michigan Pattern. Hardened, tempered forged steel. 3¼-in. cut. Nail slot. Black finish. Second growth hickory handle—Ivory lacquered Green tip. Leather thong.
84 A 1670—Hatchet (Sheath not included.) Ship. wt. 2 lbs....95c
84 A 1668—**Leather Sheath** for above and standard campers' axes. Wt. 6 oz....19c
84 A 1675—**Extra Hickory Handle.** Natural finish. Octagon shape. 14 in. long. Ship. wt. 10 oz....14c





Master Quality

Tempered Nickel Molybdenum Alloy Steel Blades with cross ground tips. Handles of Shockproof Pyroxylin—toughest non-metallic material known—practically unbreakable! Special screw-drivers speed work.

(A) **84 A 1438—Tappet Screw Driver.** 1¼-Inch blade. Shipping weight 3 oz.....35c
(B) **84 A 1434—With Pocket Clip.** 2-in. blade; round shank. Shipping weight 2 oz.....18c
(C) **84 A 1435—Round Thin Shank** for electricians. 3-in. blade. Ship. wt. 4 oz. 39c; 5-in. blade. Ship. wt. 5 oz.....45c
(D) **84 A 1437—All Purpose Screw Driver.** Round shank. Shipping wts. 4, 6, 10 oz. State Size. 4-in. blade...45c; 6-in. blade 55c; 8-in. blade...69c
(E) **84 A 1436—Heavy Duty.** Square shank. Shipping wts. 9, 12 oz. 6-in. blade...59c; 8-in. blade...75c

Lakeside Quality

Like (E) above. Shockproof Pyroxylin handles. Heat-treated and tempered high carbon tool steel blade—polished. Square shank. Cross ground tips.
84 A 1432—State size. 4-in. blade. Ship. wt. 4 oz...33c
6-in. blade. Shipping wt. 6 oz.....42c

(F) **General Purpose Type.** Tempered steel blade and tang extend through varnished, hardwood handle flared at end—won't mushroom! Cross ground tips.
84 A 1424—State size. 4-inch blade. Ship. wt. 6 oz.19c
6-in. blade. Wt. 15 oz...24c; 8-in. Wt. 1 lb. 3 oz...29c

Eclipse Quality

(G) Hardened carbon steel blade—tempered, polished; cross ground tips. Hardwood handle. State size.
84 A 1422—3-in. Ship. wt. 5 oz..9c; 4-in. Wt. 6 oz..9c
6-in. Ship. wt. 8 oz.....10c; 8-in. Wt. 10 oz.....14c

Phillips Screw Driver

(H) **Lakeside Quality.** Tempered, polished Molybdenum Alloy Steel blade. For use with Phillips screws as pictured above. (See screw page.)
84 A 1445—State Size Wanted.

Size	Fits Phillips Screws	Blade	Wt.	Each
1	No. 4 and smaller	3 in.	5 oz.	39c
2	No. 5 to 9 incl.	4 in.	6 oz.	39c
3	No. 10 to 16 incl.	6 in.	8 oz.	47c

Hold-E-Z Screw Driver

(J) Spring steel arms hold screw. Shockproof Pyroxylin handle. Tool steel blade. Ship. wts. 6, 8 oz. State size.
84 A 1442—4-in. Blade..45c; 7-in...55c

Master Quality Automatic Screw Drivers

(K) **Patented Pistol Grip Handle.** Right or left hand ratchet. Drives or draws screws automatically! Tempered steel spiral. Hardwood handle. Nickel plated finish 3 bits: 7/32, 9/32, 9/32-in. wide. Ship. wt. 2 lbs. 6 oz.
84A1400—Length extended with bit 19 inches.$2.69

(L) **Standard Handle.** 3 bits as above. Right or left ratchet. Hardwood handle. Nickel plated finish.
84 A 1403—Length ext. 19 in. Wt. 2 lbs....$2.35
84A1404—Length extended 12¾-in. Wt. 14 oz. 1.90
84 A 1406—Chuck and 8 Drills. (1/16 to 1 1/16 in.) Fits 84 A 1400, 84 A 1403. Use as Push Drill. Wt. 4 oz.79c
84 A 1407—Chuck and 8 Drills. (1/16 to 1 1/16 in.) Fits 84 A 1404. Makes it Push Drill. Wt. 4 oz.....79c

Buy on Time See Inside Back Cover

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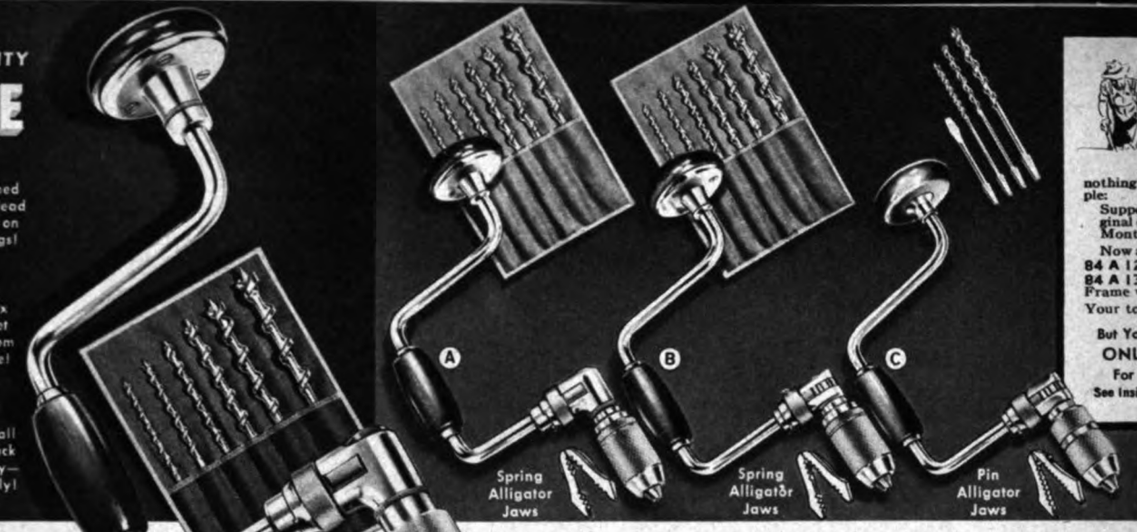
MASTER QUALITY BRACE



Bronze Bushed Steel Clad Head spins freely on Ball Bearings!

Enclosed Box Type Ratchet protected from dirt-damage!

Machined Ball Bearing Chuck opens quickly—grips securely!







Add More Tools to Your Present Set—

Include Tools in Your Time Payment Order—adds little or nothing to payments. Example:

Suppose your original order totals..$10.36
Monthly Payment is $2

Now add tools you want:
84 A 1239—Brace....$2.85
84 A 131—Coping Saw Frame with 6 Blades...$.79
Your total order.....$14.00

But Your Payments Remain
ONLY $2 A MONTH
For This $14.00 Order
See Inside Back Cover for details.

$5.95 in Most Stores!

A Famous Concern makes two Braces—*exactly same Quality*! One is nationally advertised at $5.95—the other Wards sell at $4.39. Compare these features with the "Best:" Metal-clad Cocobolo head turns smoothly on ball bearings and bronze bushed steel quill . . . minimum friction . . . lifetime wear! Enclosed Box type Ratchet protected from dirt and damage. Heavy Duty Ball Bearing steel chuck—grips and releases bit quickly. Machine-cut knurls. Heat-treated, drop forged steel jaws won't jam. Hardened and precision machined to size to insure centering of bit for straight drilling. Hardened steel ratchet turns right or left. Gear teeth are machine-cut. Heavy frame of ½-inch steel rod—10-in. sweep. Nickel plated frame. Cocobolo handle with threaded collars swaged to bow.

$4.39 Brace Only

84 A 1235—Takes straight shank drills from 1/8 to ½ in.; bit stock drills up to Clark No. 2 Expansive Bit. Ship. wt. 2 lbs. Brace only.....$4.39

84 A 1234—**Above Brace with 6 Master Quality Auger Bits** (described below). Chromium plated, polished. Sizes: ¼, 5/16, 3/8, ½, 5/8 and ¾ in. In canvas roll. Ship. wt. set, 3 lbs. 4 oz.....$6.60

Heavy Duty Lakeside

$2.85 Brace Only

(A) **$3.50 Value.** Enclosed ratchet turns right or left on machine-cut gear teeth. Heavy duty, forged steel chuck—knurled grip. Ball bearing, steel clad head. Frame of ½-in. forged steel rod—10-in. sweep. Metal parts rust-resisting plated finish. Polished hardwood head and handle. Takes all square shank bits; also round shank drills 1/8 to ¼ in.

84 A 1239—Wt. 2 lbs. 4 oz.$2.85

84 A 1241—Above Brace plus 6 Lakeside Quality Auger Bits. Sizes: ¼, 5/16, 3/8, ½, 5/8 and ¾ in. In canvas roll. Ship. wt. 3 lbs. 8 oz. Set..$4.45

Standard Lakeside

$1.95 Brace Only

(B) **$2.75 Value.** Open ring ratchet turns right or left or sets rigid—cut gear teeth. Steel clad head and steel quill turn smoothly on ball bearings. Hardened and tempered steel spring Alligator jaws take all square shank bits, also round shank drills 1/8 to ¼ in. Frame of 5/16-in. forged steel rod. 10-in. sweep. Metal parts highly polished. Hardwood head, handle.

84 A 1237—Shipping weight 2 lbs. 8 oz. Brace only.....$1.95

84 A 1015—Above Brace plus 6 buffed, polished solid center Bits. Sizes: ¼, 5/16, 3/8, ½, 5/8 and ¾ in. In canvas roll. Ship. wt. set 3 lbs. 12 oz.....$3.25

Wards Eclipse Quality

8 Brace

(C) **$1.25 Value.** Reversible open ring ratchet. Jaws take all square shank. Polished steel frame and chuck 8 in. sweep. Hardwood head, han

84 A 1244—Ship. wt. 3 lbs.

84 A 1013—Above Brace plus 5 center Bits—¼, 3/8, ½-in. sizes, 5/16-in. screw driver bit. Ship. wt. set, 3 lbs. 8 oz.

84 A 973—Above Brace plus 6 center Bits—¼, 5/16, 3/8, ½, 5/8, ¾ in. Ship. wt. 4 lbs.

Finer Brace—$1.75 Value. Similar above except better finished fr self-opening spring alligator jaw chuck like (B) at left.

84 A 1240—Ship. wt. 3 lbs.

2-SPEED BREAST DRILLS for Heavy Duty Jobs



Regularly $2.25 to $6.50 In Most Hardware Stores!

(D) **Master Quality**—$6.50 Value! Note built-in level glass—insures straight and level drilling. Hardened, tempered 3-jaw chuck—takes straight shank drills up to ½ in. 2-speed gear shift—machine-cut gray iron gears and steel pinion—ball thrust bearings. Malleable iron frame—nickel trim. 8 in. to 12 inch sweep. Adjustable breast plate.

84 A 1259—16½ in. long. Ship. wt. 5 lbs. 11 oz.....$4.45

(E) **Lakeside Quality**—$4.00 Value! Hardened, tempered 3-jaw chuck—straight shank drills to ½ in. Ball thrust bearings. Machine-cut 2-speed gear and pinion. 8 to 12-in. sweep. Breastplate adjusts.

84 A 1260—All-Steel frame. 16 in. long overall. Ship. wt. 6 lbs..$2.98

(F) **Eclipse Quality**—$2.25 Value! Hardened, tempered 3-jaw chuck—for straight shank drills to ½ in. 2-speed iron drive gear—steel pinion—machine cut teeth. Adjustable breast plate. Hardwood handles.

84 A 1264—All-steel frame. 16 in. long. Ship. wt. 5 lbs. 4 oz....$1.95

HAND DRILLS for General Work



Same Quality Costs from 75c to $2.00 Elsewhere!

(G) **Master Quality**—$2.00 Value! 2 drills in 1—mushroom screw cap makes it a combination hand and breast drill. Rust-resisting nickel plated steel frame; machine-cut driving gear—2 steel driving pinions . . . mesh smoothly. Polished steel chuck—3 hardened tool steel jaws take straight shank drills up to ¼ in. 11¼ in. long overall. Wt. 2 lbs. 2 oz.

84 A 1290—With 8 drill points 1/16 to 1/4-in. in hardwood handle..$1.75

(H) **Lakeside Quality**—$1.25 Value! Tool steel 3-jaw chuck takes straight shank drills up to ¼ in. All-steel frame. Steel pinion, enameled gear with machine-cut teeth. 12⅜ in. long. Ship. wt. 1 lb. 8 oz.

84 A 1277—With 8 drill points 1/16 to 1/4 in. in hardwood handle..95c

(J) **Eclipse Quality**—75c Value! Steel frame; 3-jaw chuck takes straight shank drills up to ¼ in. Single pinion; enameled driving gear.

84 A 1275—12 in. long. Hardwood Handle. Ship. wt. 1 lb. 12 oz...55c

84 A 1293—Set of 8 Drill Points, 1/16 to 1/4-in. Ship. wt. 2 oz.....23c

AUTOMATIC PUSH DRILLS for Light Jobs



Most Dealers Ask Up to $2.75 for Same Quality!

(K) **Master Quality**—$2.75 Value! Pistol grip handle of stained polished walnut—gives more leverage, better grip. Chuck of hardened steel. With 8 drill points 1/16 in. to ¼ in. in handle.

84 A 1317—Chrome plated. 10 in. long. Ship. wt. 12 oz.

(L) **Master Quality**—$2.25 Value! Like above, but with stained wood handle. With 8 drill points 1/16 to 1/4 in. in handle.

84 A 1315—9½ in. long overall. Ship. wt. 8 oz.

(M) **Lakeside Quality**—$1.75 Value! Drill is all metal—cadmium plated. With 8 drill points, 1/16 to 1/4 in. in handle.

84 A 1310—9½ in. long overall. Ship. wt. 14 oz.

84 A 1313—**Set of 8 drill points.** Sizes: 1/16 to 1/4 in. Fit above push drills. Ship. wt. set, 4 oz.

Master Quality AUGER BITS

- Size-accurate
- Chromium plated

GOOD	BETTER	BEST
18c	**23c**	**31c**
¼-in.	¼-in.	¼-in.





SELECT THE RIGHT DRILL FOR THE JOB



GOOD—Eclipse Quality. Forged tool steel—tempered, sharpened—buffed and polished.

BETTER—Lakeside Quality. Same quality that others usually sell as "best." Drop forged tool steel, tempered to hold sharp edge. Double lip cutter makes starting easier. Single spiral. Buffed, polished **State sizes wanted.**

BEST—Master Quality. Regardless of price—no finer Auger Bit made! Drop forged *Chrome Manganese* Tool Steel—perfectly hardened and tempered to take and hold a sharp edge. Double lip cutter head—starts easily in hardest wood! Solid center stem for extra strength. Single spiral allows plenty room to elevate chips—assures fast, clog-free cutting! Every bit chromium plated, then carefully sharpened by hand to give it a razor-keen, fast-cutting edge. Tapered square shank. **State sizes.**

Size In.	Ship. Wt.	Eclipse 84 A 913	Lakeside 84 A 915	Master 84 A 919
¼	3 oz.	18c	23c	31c
5/16	3 oz.	20c	26c	35c
3/8	4 oz.	22c	29c	39c
7/16	4 oz.	...	32c	43c
½	5 oz.	26c	35c	47c
9/16	6 oz.	...	38c	51c
5/8	7 oz.	30c	41c	55c
11/16	9 oz.	34c	47c	63c
¾	12 oz.	...	53c	71c
1	1 lb.	42c	59c	79c

Auger Bit Sets in Canvas Rolls

(N) **Eclipse Quality.** Same bits as described at left. In Canvas roll.

84 A 912—**Set of 4 Bits.** Sizes: ¼, 3/8, ½, ¾ in. Ship. wt. 1 lb. Set...98c

84 A 914—**Set of 6 Bits.** Sizes: ¼, 5/16, 3/8, ½, 5/8 and ¾ in. Shipping weight 1 lb. 4 oz. Set.....$1.49

84 A 917—**Set of 8 Bits.** Sizes: ¼, 5/16, 3/8, ½, 5/8, ¾, 7/8 and 1 in. Shipping weight 2 lbs. Set.....$2.10

Auger Bit Sets in Hinged Case

(P) **Lakeside** or **Master Quality** described at left. Drop front wood box included has separate compartment for each size. Ship. wt. set, 2 lbs. 2 oz.

6-Bit Sets. Sizes: ¼, 3/8, ½, 5/8, ¾, 1 in.

84A990—Lakeside Quality. Set $2.35

84A980—Master Quality. Set. 2.98

8-Bit Sets. Sizes: ¼, 5/16, 3/8, ½, 5/8, ¾, 7/8, 1 in. Ship. wt. set 4 lbs.

84A991—Lakeside Quality. Set $3.15

84A983—Master Quality. Set 4.25

13-Bit Sets. Sizes: ¼, 5/16, 3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1 in. Ship. wt. 5 lbs. 12 oz.

84A992—Lakeside Quality. Set $5.35

84A982—Master Quality. Set 7.15

29 Master Quality Drills

(R) 84 A 1062—Combination drill gauge and stand—chrome plated. Straight shank. Carbon steel drills for metal or wood. Sizes 1/16 to ½ in. by 64ths, 2½ to 6¼ in. long. Ship. wt. 4 lbs. Set...$9.25

84 A 1064—**Sixty Wire gauge Drills.** 1 to 60-gauge. In metal stand. Ship. wt. 2 lbs. 4 oz....$8.75

Set of 9 Bit Stock Drills

(S) 84 A 1052—**Master Quality** for bit braces. Carbon tool steel. For Metal or Wood. In wood box—screw top—drill sizes marked. Sizes, 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, ¼, 5/16, 3/8 in. Lengths 3½ to 6 in. Ship. wt. 1 lb. 8 oz.....$2.10

84 A 1050—Same drills as 84 A 1052. Wts. 2 to 7 oz. **State size.**

Size, Inches	1/16	3/32	1/8	5/32	3/16
Length, In..	3⅛	3⅛	3⅛	3⅛	4⅛
Price Each..	9c	11c	12c	15c	17c
Size, Inches	7/32	¼	9/32	5/16	11/32
Length, In..	4⅛	5⅛	5⅛	5⅛	5⅛
Price Each..	19c	20c	27c	29c	33c
Size, Inches	⅜	7/16	½	9/16	⅝
Length, In..	5⅞	6¼	6¼	7½	7½
Price Each..	35c	44c	54c	65c	75c

II High Speed Master Quality Drills

(T) For electric drills. Straight shank. Wood box. Sizes: 1/16, 3/64, 1/32, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64, 3/16, 7/32, ¼ in.

84 A 1056—Ship. wt. 12 oz. Set...$2.75

84 A 1057—**Set of 11 Carbon Steel Drills**—for hand, breast or bench drills. Straight shank. Sizes as above listings. Ship. wt. 8 oz. Set.....$1.35

Master Quality Straight Shank Drills

Individual Sizes—Carbon steel for slow speed drilling. High speed for electric drills. Precision ground for use in metal or wood. Ship. wts. 2 to 6 oz. **State diam.**

Diam. In.	Lgth. In.	84 A 1060 Carb. Steel	84 A 1063 High Speed	Diam. In.	Lgth. In.	84 A 1060 Carb. Steel	84 A 1063 High Speed
1/16	2½	8c	15c	7/32	3⅜	14c	32c
5/64	2⅝	9c	17c	15/64	3⅞	15c	35c
3/32	2¾	9c	18c	¼	4	16c	39c
7/64	2⅞	9c	19c	9/32	4⅛	20c	45c
⅛	3	10c	20c	5/16	4½	22c	50c
9/64	3⅛	10c	21c	11/32	4¾	25c	60c
5/32	3¼	10c	22c	⅜	5	29c	70c
11/64	3⅜	11c	24c	13/32	5⅛	34c	85c
3/16	3½	11c	26c	7/16	5½	40c	95c
13/64	3⅝	13c	29c	½	6	57c	$1.20

Master Quality Drill Sets

(U) 84 A 1045—In handy revolving cap box with sizes marked on outside. Set of 8 carbon steel straight shank drills for hand, breast or bench drills. Add set to your order for any above. Sizes: 1/16, 5/32, 3/16, 7/32, ¼ and 5/16 in. Ship. wt. 12 oz.

Blacksmiths' Drills

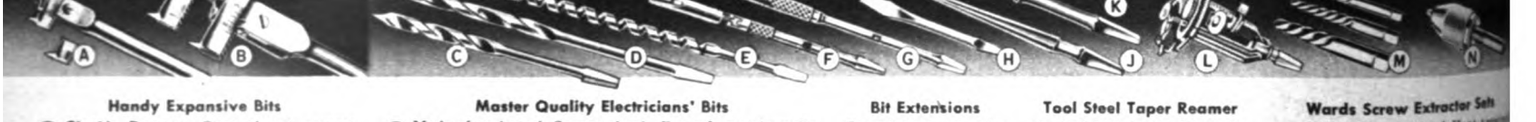
(V) For post and bench drills (see Pg. 1105). ½-in. flatted round shank. Hardened and tempered carbon steel—precision ground. Average length 9 in. to 6 in. For drilling in wood or metal.

84 A 1058—**Set of 4.** Sizes: ¼, 5/16, ½ in. In Paper Envelope. Ship. wt. 1 lb. 4 oz. Set.....

84 A 1059—**Set of 8.** Sizes: ¼, 5/16, 3/8, ½, 5/8 and ¾ in. In canvas roll. Ship. wt. 2 lbs. 4 oz.

84 A 1055—**Individual Sizes.** Ship. wts. 2 oz. to 12 oz. **State size wanted.**

Size, In..	1/8	5/32	3/16	7/32	1/4
Each....	27c	29c	30c	34c	37c
Size, In..	5/16	11/32	3/8	13/32	7/16
Each....	44c	47c	49c	55c	57c
Size, In..	15/32	9/16	5/8	11/16	¾
Each	65c	68c	80c	95c	$1.05



Handy Expansive Bits

(A) **Clark's Pattern**—Open throat assures positive clearance of chips. Tool Steel throughout. Two hardened steel cutters—honed to razor-sharp edge, included. Fits standard bit braces.

Lakeside Quality. Highly buffed and polished finish. Ship. wts., 8 and 12 oz.

84 A 928—Cuts ½ to 1½-in. holes 95c

84 A 929—Cuts 1/8 to 3-in. holes $1.35

Eclipse Quality—same style as above, but standard polished finish. Ship. wt. 12 oz.

84 A 949—Cuts 3/8 to 3-in. holes $1.00

(B) **Steers' Pattern**—with Micrometer Adjusting Screw—positive locking, won't creep! Open throat for chip clearance. Polished drop forged tool steel. With 2 cutters. Fit standard Bit Brace. Ship. wt. 1 lb.

84 A 945—Cuts 3/8 to 1¾-in. holes $1.69

84 A 946—Cuts from 1/8 to 3-in. holes $1.95

Master Quality Electricians' Bits

(C) Made of tool steel. Square shank. For soft metals, nails, floors, wall, etc. Length 18 in. **State size wanted.**

Size, inches	¼	3/8	½	5/8
Shipping weight	5 oz.	7 oz.	12 oz.	1 lb.
84 A 959—Price, Each	75c	89c	$1.05	$1.35

Master Quality Wood Brace Bits

(D) Drop forged tool steel. Highly polished. **State size.**

Size, inches	1/8	5/16	¼	3/16	3/8	7/16	½
Length, inches	4⅛	5⅛	6⅜	7½	8	8½	9
Ship. wt., oz.	2	3	3	4	4	5	5
84 A 955—Each	29c	35c	45c	49c	59c	69c	79c

Lakeside Quality Ship Auger Car Bits

(E) About 17 in. long—12-in. twist. Forged, tempered tool steel. Single cutter head. **State sizes wanted.**

Size, inches	3/8	½	5/8	¾	7/8
Shipping weight	6 oz.	8 oz.	12 oz.	1 lb.	1 lb. 8 oz.
84 A 921—Each	95c	$1.00	$1.10	$1.15	$1.25

Include the special bits you need in a Credit Order—they add little or nothing to Monthly Payments. See Inside Back Cover.

Bit Extensions

Seamless steel tube sleeves. Drop forged shanks. Smoothly polished. Follow 11/16-in. bits. 18 in. long. Ship. wt. 1 lb. 4 oz.

(F) 84 A 925—Shank and socket type. Bit capacity—1 inch. Each.....$1.85

(G) 84 A 926—2-jaw type. Bit capacity 3/8 in. Ea.$1.25

(H) **Screwdriver Bits.** Tempered forged steel with round shank, square head 5/16 inch wide. 4¾ in. long. Fits any bit brace. Ship. wt. 3 oz.

84 A 1108—Ea. 14c

Tool Steel Taper Reamer

(J) Polished finish. Ship. wts. 4 and 10 oz. Fits any standard Bit Brace.

84A1076—5/16 in. long. Reams 1/8 to ½-inch diameter holes cleanly. Each.....79c

84A1077—6½ in. long. Reams 3/8 to 1-inch diameter holes cleanly. Each.....$1.25

(K) **Countersink.** For wood or soft metal. Fits any Bit Brace. For holes up to 3/8 in. diameter. Ship. wt. 4 oz.

84 A 1093—Each.....15c

(L) **Adjustable Hollow Auger**—graduated jaw scale movable stop. Cuts wood tenons ¼ to 1¼ in. Tool steel cutters. Ship. wt. 2 lbs.

84 A 1202—Each.....$2.59

Wards Screw Extractor Sets

(M) **High carbon tool steel. Heat-treated and tempered.** Handy for removing broken screws. Sizes: 3/16, ¼, and 5/16 in. In wood box. Ship. wt. 10 oz.

84 A 1067—Set of 3.....

84 A 1065—Set of 6. Sizes: 1/8, 5/32, 3/16, ¼ and 5/16 in. Ship. wt. 1 lb.

Chucks for Post Drills

(N) **For Straight Shank Drills.** Made from cold rolled steel—¾-in. shank. Three tapered machined jaws, hardened and tempered for long wear, won't slip, jam or bend—grip drill securely. Polished chuck has machine-cut knurls. Shipping weights, 1 lb. and 1 lb. 4 oz. **State article number wanted.**

84 A 1166—0 to 5/8-in. capacity.....

84 A 1159—0 to 1/2-in. capacity.....

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MASTER QUALITY HAND SAWS

"The Choice of Master Craftsmen"

Taper ground —won't bind!

Maximum Flexibility

See "How to Order the Right Saw for the Job" Below.

Eclipse Quality

empered Special nalysis Saw Steel. eechwood handle—arnishedand Polished. dles firmly fastened to with 4 Brass Screws cept 584 A 40—20-in. saw has 3 ews). Teeth filed, set. Popular skew k pattern. *Mailable.* **State Style.**

69c 584 A 40 20-in.

o-gauge Taper Ground from teeth back—from butt to point. Teeth ne gauge entire length of saw. 4 A 20—26-in. Rip Saw. 5½ nts to in. Ship. wt. 3 lbs..... **$1.59**
-in. Cross-Cut Saw. 8 points to in. Ship. wt. 3 lbs..... **1.59**

at Ground to same gauge from teeth back, and from butt to point. 4 A 40—20-in. Panel. 10 points in. Ship. wt. 1 lb. 8 oz..... **69c**
-in. Cross-Cut Saw. 8 points to Ship. wt. 2 lbs. 8 oz..... **89c**

$1.79 20-in.

Lakeside Quality—$3.50 Value

- **Heat-treated and hardened Vanadium Steel—tempered in electric furnaces.**
- **Thin Back—4-gauge taper ground from Teeth to Back and from Butt to Point.**

Second only to Wards Master Quality Saws pictured at right. Teeth hand set—bevel filed to diamond points for fast, clean cutting. Popular lightweight ship pattern with straight back. Comfortable Walnut finish hardwood handle. *Mailable.* **State size, number of points.**

Size	Style	Points to In.	Ship. Wt.	584 A 21
20-in.	Panel	10	1 lb. 12 oz.	$1.79
24-in.	Cross-cut	8	2 lbs. 8 oz.	1.98
26-in.	Cross-cut	8, 9 or 10	2 lbs. 8 oz.	2.25
26-in.	Rip	5½	2 lbs. 8 oz.	2.25

Applewood Handle **$2.98** 26-in.

Plastic Handle **$3.45** 26-in.

Tough Chrome Alloy Steel Saw—Molded "Tenite" Plastic Handle! $4 to $6 Quality

- **Modern design "Tenite" handle is molded to fit your grip—perfectly fits right or left hand. Webbed construction makes it 4 times stronger than wood—practically unbreakable! Weatherproof—won't warp or rot.**
- **Same Chrome Alloy Steel Saw also available with select, polished, genuine Applewood handle with weatherproof finish.**
- **Blade 4-ga. taper ground from teeth to back, from butt to point.**
- **Scientifically tempered in electrically controlled furnaces.**

Same tough Chrome Alloy Steel used by famous maker in his nationally advertised saws. Beautiful, ribbon polished finish blade. All teeth run same gauge full length of saw—every tooth hand set and bevel filed to sharp diamond point. Handles hung at "natural angle" for straight-line sawing without wrist strain—you cut faster, with less effort than with old style handle. 4 Nickel plated Brass screws hold handle securely. Popular ship pattern—skew or straight back. *Mailable.* **State size, number of points.**

Size Blade	Style Saw	Points to inch	Ship. Wt. Lbs.	Oz.	Genuine Applewood Handle 584 A 26—Skew Back	Genuine Applewood Handle 584 A 27—Straight Back	Plastic Handle 584 A 29—Straight Back
20 in.	Panel	11	1	8	$2.79	$2.79	.....
24 in.	Cross-cut	9	2	2	2.89	2.89	.....
26 in.	Cross-cut	8, 9 or 10	2	4	2.98	2.98	$3.45
26 in.	Rip	5½	2	4	2.98	2.98	3.45

$5.95 26-in.

New Mirror-Bright Stainless Steel Saw—$10 Quality

- **Beautiful finish that stays bright—because it's stainless, rustless, tarnishless—completely weatherproof.**
- **Blade 4-gauge taper ground from teeth to back, and from butt to point.**
- **Even gauge along entire tooth edge—hand set, filed to diamond points.**

Stainless Steel Saw teeth never dull from rust—cut clean and smooth. Saw ready to use at any time—no oiling necessary. Actual tests prove this saw requires less set, stays sharp longer than any other hand saw we know of. Made exclusively for Wards by one of America's most famous saw manufacturers. Hardened in electric furnaces and carefully tempered by master saw smiths. Polished applewood handle hung for straight-line sawing without wrist strain—fast cutting with little effort. 4 Nickel plated brass screws. *Mailable.* **State no. of points.**

584 A 28—Skew Back. Ship. wt. 2 lbs. 4 oz.
26-in. Cross-Cut. 8, 9 or 10 points..**$5.95**
26-in. Rip Saw. 5½ points..... **5.95**

HOW TO ORDER THE RIGHT SAW FOR THE JOB

ross-Cut Saw—A general purpose saw for smooth cutting *across* the grain of the wood. n be used for cutting *with* the grain but designed mainly for cross-grain sawing.
ip Saw—Use for faster, smooth cutting or ripping *with* the grain of the wood.
anel Saw—An easy-handling, lighter saw for fine cabinet work and sawing trim.
oints—Means number of teeth to the inch. 8 points best for general use. More points give moother, but slower cutting; fewer points allow faster, but more coarse cutting.



NATIONALLY ADVERTISED SAWS

Coping Saws and Blades — 15c Eclipse

84 A 138—Eclipse Quality. Like Lakeside below, but lighter weight frame. With one 6½-in. pin end blade. Ship. wt. 10 oz..... 15c

84 A 130—Lakeside Quality. Nickel plated frame. 4⅞-in. throat; 6½-in. pin end blade. Varnished wood handle. Ship. wt. 10 oz.. 37c

(A) **84 A 131—Master Quality.** Steel frame. Polished chrome plated rust-resisting finish. 6½-in. throat. Polished handle. Six 6½-in. blades. Add it to your Time Payment Order. See Inside Back Cover. Ship. wt. 1 lb..... 79c

84 A 132—Set of Six Blades. 6½-in. pin end. Ship. wt. 2 oz.. 12c

Metal Cutting — $2.25

(B) **Master Quality**—18 in. long. For plumbers, electricians, carpenters. Cuts soft metals, nails, light gauge sheet metal. Taper ground to prevent binding. Tempered Tungsten Alloy steel blade—15 milled teeth to inch—requires no set. Thoroughly seasoned hardwood handle; Nickel plated brass screws. Wt. 1 lb. 8 oz. **584 A 34**..... $2.25

Compass Saws — 23c Eclipse

(C) **84 A 70—Eclipse Quality.** With tempered 12-in. blade; hardwood handle. Wt. 10 oz. 23c

84 A 71—Lakeside Quality. 12-inch tempered steel blade. Comfortable Beechwood handle. Ship. wt. 10 oz..... 49c

84 A 77—Blade only. Tempered, hardened. Shipping weight 6 oz..... 32c

(D) **84 A 60—4-Piece Saw Outfit.** Three tempered steel blades; 16-inch metal cutting saw; 13-inch compass saw; 11-inch keyhole saw. Hardwood handle fits all blades. Shipping weight 1 lb. 12 oz..... $1.59

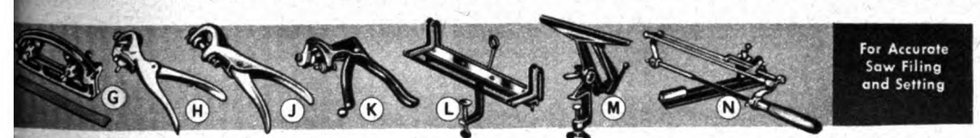
Nest of 3 Saws with Handle — 79c Complete

(E) Handy set for your house—4 saws in one! One 9-pt. 16-in. Panel; one 16-in. blade—one side for pruning other side metal cutting; one 8-pt. 14-in. Compass Saw. Tempered. Hardwood handle fits all blades.
84 A 84—Ship. wt. 1 lb. 6 oz... 79c

(F) **84 A 82**—Hardwood Handles for 24 or 26-in. Master and Lakeside saws (not bored). Shipping weight 9 oz..... 55c
84 A 81—Handle for 26-in. Eclipse and Standard 24 and 26 in. 35c
84 A 80—Standard Pattern Handle for saws 22 in. or less.. 29c
84 A 83—4 Brass Screws. Shipping weight 3 oz..... 15c



See "How to Order the Right Saw for the Job" above.



For Accurate Saw Filing and Setting

Saw Jointer

(G) For dressing uneven saw teeth to uniform height before sharpening or resetting saw. Adj. to any thickness of saw. File incl.—held by four screws. Black japanned.
84 A 320 Wt., 8 oz... 65c

Wards High Quality Saw Sets

(H) **84 A 322—Morril Pattern** sets hand, band saws, from widest to ½-in. Hardened anvil, plunger—tempered steel spring. 6½ in. long overall. Tumbled finish. Ship. wt. 1 lb..... 35c

(J) **84 A 310—Revolving Anvil Type.** Indicator dial for quickly setting hand or band saws. Tool steel plunger—hardened and tempered anvil; tempered steel spring. Polished Nickel plated finish. Ship. wt. 1 lb.. $1.10

(K) **84 A 334—Pistol Grip** for saws 4 to 16 pt. Revolving dial shows pt. Hardened, tempered anvil. Tool steel plunger. Black lacquer finish. Ship. wt. 1 lb. 4 oz..... 95c

Wards Saw Filing Vises

(L) **84 A 349—Folding Type** attaches to any bench. Back jaw faced with rubber—prevents slipping! Movable roller type jaw holds saw. End loops high—to set any make saw. Black japanned finish. 11½ in. long overall. Wt. 3 lbs. 4 oz.... 85c

(M) **84 A 341—Clamp Style** attaches to any table or bench to 1¾ in. thick. 9½-in. jaws hold saw rigidly by pressing lever forward. Reinforced cast iron. Black japanned. Ship. wt. 4 lbs. 12 oz..... 98c

Saw Filing Guide

(N) Anyone can file saws with this Guide! Use bench vise to hold guide when filing. Adjustable for any size cross-cut and rip saw teeth. Complete with 5½-in. slim taper file. Black japanned iron base. Rust resisting Nickel plated steel guides. Instructions.
84 A 356—Ship. wt., 3 lbs. 4 oz... $1.75

Atkins No. 53 Skew Back Saw

- **Hardened and Tempered Atkins Silver Steel. Famous Damaskeen Finish.**

$3.50 Cross-cut

4-gauge taper ground from teeth to back, and from butt to point—prevents binding. Every tooth hand set and bevel filed to a diamond point. Atkins famous "Perfection" Applewood handle—carved and polished for comfortable grip—fastened to blade with 3 nickel plated screws and 1 medallion. Ship. wt. 2 lbs. 8 oz. *Mailable.* **State number of points.**

584 A 36—26-in. Cross-cut Saw—8 points to the inch..... $3.50
26-in. Rip Saw—5½ points. 3.50

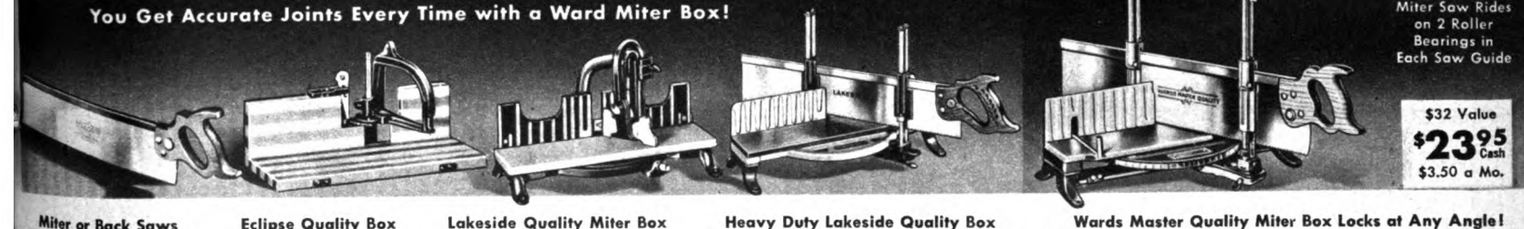
Disston D8 Skew Back Saw

- **Hardened and tempered Disston Steel Blade.**
- **Highly polished finish.**

$3.25

4-gauge taper ground from teeth to back, and from butt to point to prevent binding. All teeth hand set, bevel filed to diamond points—same gauge entire length of Saw for clean, smooth cutting. Carved, polished Applewood handle—weatherproof finish—comfortable grip. 5 Nickel plated screws. Choice of 26-in. Cross-cut Saw—8 points to the inch or Rip Saw—5½ points to inch. **State no. of points.** Shipping weight 2 lbs. 8 oz.
584 A 38—*Mailable*..... $3.25

You Get Accurate Joints Every Time with a Ward Miter Box!



Miter Saw Rides on 2 Roller Bearings in Each Saw Guide

$32 Value **$23.95** Cash
$3.50 a Mo.

Miter or Back Saws

Master Quality. For fine joinery or cabinet work. Tempered and hardened steel blade—hand filed, sharp fine teeth. Hardened steel braced back stiffens blade—keeps it down in cut. Seasoned Beechwood handle—polished and lacquered. 3 brass screws. Used in any standard miter box. Ship. wts. 2 lbs.; 2 lbs. 12 oz.; 3 lbs. 8 oz.

$1.49 12-in.

State length.

Blade In.	Depth Back	Teeth to in.	584 A 50
12	3 in.	14	$1.49
16	3½ in.	12	1.98
22	4 in.	11	3.25

Eclipse Quality Box

$4 Value. Handy Miter Box for ordinary work—few and easy adjustments to make! Saw guide can be set at "0" (90°), 22½°, 30°, 45° (miters) and for 4, 5, 6 or 8-sided figures. Adjustable guide determines depth and proper angle to be cut. Index plate, index lever, and center point made of steel. Strong, warp-proof laminated hardwood frame—lacquer finish. Use with back, panel or regular hand saw—but for cutting to exact depths use back saw shown at left.
Ship. wt. 8 lbs.
584 A 374..... $2.95

$2.95

Lakeside Quality Miter Box

$8.50 Value. Takes stock up to 4 inches high. Open front type—you can saw extra wide boards at any angle between 45° and 90°. Swivel arm has latch pivots for cutting miters on 4, 6, or 8-sided figures. Swivel locks at any angle. Saw guide adjusts for saw of any thickness—also adjusts vertical to base and square with back for accurate cutting. Can be used with back or panel saw, but best results obtained with cross-cut panel saw listed at top of page. Adjustable gauge acts as stop for short work. Base swivel and yoke have Black japanned finish. Base board painted.
Ship. wt. 18 lbs.
484 A 372—*Mailable*..... $5.95

$5.95

Heavy Duty Lakeside Quality Box

- **Back frame, indexed Quadrant and Swivel arm bearing cast in one piece.**
- **Lakeside Quality 22 by 4-inch Miter Saw included.**

$13.95 Cash
$2 a Month

$21 Value. Surpassed in quality and accuracy only by Master Quality Miter Box at right. Capacity at right angle 7¼ in.; at miter (45°) 4¾ in. Quadrant indexed for cutting 4, 5, 6, 8, 12, and 24-sided figures. Swivel locks at any angle. Movable stops on uprights control any depth of cut wanted. Saw Guide Uprights can be adjusted to hold saw without side play. Leveling screws in legs to keep box level—stop slipping. No tie bar between saw guides—easy to saw long stock. Less than 7c a day—$2 a Month places this useful miter box in your shop—See Inside Back Cover. With 22x4-in. Lakeside Quality Miter Saw. *Mailable.*
484 A 371—Ship. wt. 25 lbs..... $13.95

Wards Master Quality Miter Box Locks at Any Angle!

- **Back, Frame and Graduated Quadrant cast in one piece to insure you permanent accuracy in mitering.**
- **Master Quality 28 by 5-in. Miter Saw included—back of saw rides on 4 roller bearings for smooth, fast cutting!**
- **Adjustable stops control any depth of cut you want!**

Box so rigidly braced you can miter accurately . . . even when adjusted to full capacity! No tie bar between saw guides—easy to saw long boards. Automatic, positive Saw Guide Catches—hold saw above work—leaving hands free to place work right. Swivel Lever and Lift Screw automatically raise front Saw Guide and saw out of kerf cut when you change position of swivel. Pointed screws level entire box—stop sliding. Quadrant graduated in degrees and indexed 3, 4, 5, 6, 8, 12, 24-sided figures, and right angle stop. Capacity at miter 6⅝ in.; at right angle 9⅜ in. Stock guides hold work firmly against adjustable spurs in back—can't slip! Length stops for fast, accurate duplication. Malleable iron legs, saw guides, swivels and uprights—practically unbreakable! Adjustable Uprights take up play in any gauge saw—insures cutting stock square to base. Ship. wt. with saw, 42 lbs.
484 A 370—*Mailable*..... $23.95

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MASTER QUALITY

PLANES



INLAID TOOL STEEL CUTTER
Exclusive by Mail Order at Wards! (A) Shaded cutting edge of High Carbon Crucible Steel is fused to (B) Low-Carbon Crucible Steel back of cutter . . . cannot be separated!

Your Choice of Corrugated or Smooth Bottoms—Both Made of Fine Gray Iron

HERE'S HOW I ADD TOOLS TO MY WORKSHOP

I include them in my credit order—usually they add little or nothing to the monthly payments I had intended to make. For example, suppose
My order totals.....$10.08
Monthly Payment is $2
Now I add the tools I want—
84 A 460—Plane.....$1.25
84 A 2200—8-in. Pliers .42
584A2093—24-in. Level 2.25
My entire order is $14.00
And my payments are still
ONLY $2 A MONTH
See Inside Back Cover.

$3.45
84 A 438

- No finer plane made—regardless of price! Built by one of America's most famous manufacturers of fine planes. Exactly same quality as nationally-advertised planes selling at $4.20 to $8.40 in most stores.

You plane faster . . . smoother . . . even on hardest wood! Faster . . . because inlaid cutting bevel (see picture above) is higher carbon steel, taking a keener edge, than possible in ordinary 1-piece cutters. Smoother . . . because soft, low-carbon steel back of cutter seats more firmly on frog . . . eliminates chatter. Easier to hone—lasts twice as long—costs twice as much as 1-piece cutters!

Solid Gray Iron Frame—reinforced cross-ribbed sides and bottom—machined true. Highly polished bottoms and sides. Inside is Black Japanned.

Brass Screw and Lever adjust cutter for depth of cut and level . . . from tissue-thin to coarse shavings!

Highly Polished and Buffed Lever Cap clamps cutter tightly against frog.

Rosewood Knob and Handle—highly polished. Ship. wts.: 3 lbs. 12 oz.; 4 lbs.; 5 lbs. 5 oz.; 7 lbs. 6 oz.; 8 lbs. 4 oz.

Style of Plane	Cutter Width	Length	Article Number	Price Each
Smooth, No. 3	1¾-in.	8 in.	84 A 438	$3.45
Smooth, No. 4	2 -in.	9 in.	84 A 442	3.75
Jack, No. 5	2 -in.	14 in.	84 A 444	3.98
Fore, No. 6	2⅜-in.	18 in.	584 A 446	5.95
Jointer, No. 7	2⅜-in.	22 in.	584 A 447	6.95

Lakeside Quality Planes

$1.98
84 A 453

- Same Quality as $2.50 to $5 planes that often are sold elsewhere as the "Best."
- Forged and tempered tool steel cutters.

Reinforced gray iron frames—sides and bottom strengthened by cross-ribs — accurately machined and trued — polished to a smooth finish. Cutter carefully ground and honed to keen edge. Brass screw and lever adjust cutter for depth of cut and leveling—for coarse to razor-thin shavings! Highly polished lever cap holds cutter securely against frog—prevents chattering, gives you a smooth cut. Polished hardwood handle and knob. (Jack plane No. 5 shown above).

Style of Plane	Width Cutter	Length In.	Ship. Wt lbs.	oz.	Lakeside Quality Smooth	Each	Corrugated	Each
Smooth, No. 3	1¾ in.	9	3	4	84 A 453	$1.98	.....	....
Smooth, No. 4	2 in.	9	3	10	84 A 454	2.39	84 A 494	$2.79
Jack, No. 5	2 in.	14	4	6	84 A 455	2.98	84 A 495	3.35

Eclipse Quality Planes

$1.25
84 A 460

- From $1.75 to $2.25 Values.
- Cutters made from special Analysis Carbon Tool Steel.

Cast body—sides and bottom ground. Cutters tempered, honed and ground to sharp edge. Screw adjustment regulates depth of cut. Lever adjusts cutter endwise for leveling. Polished lever cap holds cutter firmly against frog. Polished hardwood handle and knob. Inside of frame rust-resisting Black Japanned. (Smooth No. 3 plane is shown.)

Style of Plane	Width Cutter	Length In.	Ship. Wt lbs.	oz.	Eclipse Quality Art. No.	Each
Smooth, No. 3	1¾ in.	9	3	4	84 A 460	$1.25
Smooth, No. 4	2 in.	9	3	10	84 A 466	1.39
Jack, No. 5	2 in.	14	4	6	84 A 467	1.65

Household Quality

(Not pictured.) Plane for ordinary jobs around your home. Has screw adjustment for regulating depth; built-in frog gives firm support for cutter. Rust-resisting Black Japanned finish; lever cap.

Style of Plane	Household Quality Art. No.	Each
Smooth, No. 3	84 A 439	$86
Smooth, No. 4	84 A 440	$1.25
Jack, No. 5	84 A 441	1.49

Rabbet and Block Planes



Razor-Edge Draw Knife
1-piece forged crucible steel blade—tempered. Tangs extend through hardwood handles—riveted. **State Size.**

Blades	Ship. Wt.	84A895
8 in.	1 lb. 12 oz.	85c
10 in.	2 lbs.	98c
12 in.	2 lbs. 4 oz.	$1.10

Floor and Cabinet Scraper
Ball and socket joint clamps rigidly at any angle. Hardened and tempered 3-in. reversible blade. All 4 edges may be used—long lasting. Easily resharpened. Length 9 in. Ship. wt. 2 lbs. 8 oz.
84 A 725—Each.....**89c**
84 A 727—**Extra Blades.** Ship. wt. 4 oz. Each.....**20c**

Spoke Shave
Hardened and tempered Tool Steel cutter has 2½-inch blade. Japanned iron frame is 10 in. long overall.
84A906 **42c** Ship. wt. 1 lb.

Combination Plane—23 Cutters
Wards Master Quality. $17.50 Value! With 23 hardened and tempered tool steel cutters you have "Seven Planes in One"—(1) Beading and Center Beading, (2) Plow, (3) Dado, (4) Rabbet and Filletster, (5) Match, (6) Sash, and (7) Slitting Planes. Razor-keen cutters included: 11 plow and dado bits—⅛ to 7/16-in.; 7 beading tools—⅛ to ½-in.; slitting blade; tonguing tools—¼ and 3/16-in.; 1½-in. sash tool; 1¼-in. filletster cutter; and screw driver. Reversible fence—can be used on either side. Adjustable depth gauge—accurate, convenient—speeds up work. Spurs cut smoothly across and with the grain—right or left hand. All metal parts rust-resisting nickel plated. Genuine Rosewood handle, knob and fence.
584 A 695—Instructions. Shipping wt. 10 lbs. **$11.45**

$11.45 Cash
$2 a Month
See Inside Back Cover

Filletster-Rabbet Plane
Master Quality. 2 cutter seats—for regular and bull-nose work. 1½-in. adjustable tool steel cutter—hardened and tempered. Adjustable spur; removable depth gauge. Adjustable fence. All metal, nickel plated trim. 8½ in. long. Ship. wt. 3 lbs. 6 oz.
84 A 656.....**$1.95**

(A) 84 A 558—**New Master Quality Low Angle Plane** with Highly polished lever cap that fits your hand comfortably! "Knuckle joint" lever locks 1⅝-in. tool steel cutter—adjusts endwise—set at 12° for fine work. Adjustable throat. Sides and bottom are milled and ground true. Nickel plated trim. 7 in. long. Ship. wt. 1 lb. 6 oz.....$2.10
(B) 84 A 542—**Master Quality Block Plane.** 1⅝ in. tool steel cutter adjusts endwise, sidewise for coarse or fine work. Polished bottom, sides. 6¼ in. long. Ship. wt. 1 lb. 11 oz.....$1.59
(C) 84 A 578—**Lakeside Quality Block Plane.** Tempered tool steel cutter 1⅝ in. wide; adjustable endwise. Bottom and sides polished. Hardwood knob. 7 in. long. Ship. wt. 1 lb. 6 oz..$1.15
(D) 84 A 545—**Eclipse Quality Plane.** 1⅝ in. tempered carbon steel cutter adjusts endwise. 7 in. long. Polished. Ship. wt. 1 lb. 9 oz.....55c

Pyroxylin Handle Chisels



Wards Master $1.10 ¼-in.
- 3-in. Butt Crucible Steel blades.
- Highly Polished!

(E) Combination Socket and Tang (see above)—Twisting and turning of blade prevented by: (1) Wings on Tang extending into handle, (2) Pyroxlin handle (2½ times stronger than wood) shrinks with age—so blade and crown-shaped steel cap cannot loosen. **State size.**

Size In.	Ship. Wt.	84A815
⅛	5 oz.	$1.10
½	6 oz.	1.25
¾	7 oz.	1.35
1	8 oz.	1.45
1¼	9 oz.	1.60
1½	12 oz.	1.75
2	14 oz.	1.90

84 A 816—**Set of 5.** ¼, ½, ¾, 1, 1¼-in. sizes. Artificial leather roll. Wt. 2½ lbs..**$6.50**

Wood Handle Chisels

Wards Lakeside 69c ½-in.
- 3-inch Butt type Crucible Steel blades—hardened and tempered.
- Polished finish.

(Not Pictured) This quality often sold as "Best". Practically unbreakable Pyroxylin handles. Evenly tapered, balanced, bevel-edged blades—locked permanently in handles—never twist or loosen. Crown-shaped steel cap prevents mushrooming. **State size.**

Size In.	Ship. Wt.	84A817
½	.8 oz.	69c
¾	9 oz.	79c
1	10 oz.	85c
1½	13 oz.	$1.10

84 A 818—**Set of 4** of above chisels—½, ¾, 1, 1½-in. sizes. Packed in canvas roll. Ship. wt. 2 lbs...**$3.25**

Wards Master 59c ¼-in.
- 4½-inch Tempered Crucible Steel blades—tapered, beveled edges.
- Polished to mirror-bright finish.

(F) Socket Firmer. Leather tipped Hickory handle. **State size wanted.**

Size In.	Ship. Wt.	84A813
⅛	6 oz.	59c
½	7 oz.	65c
¾	8 oz.	75c
1	9 oz.	79c
1¼	10 oz.	89c
1½	11 oz.	95c
2	16 oz.	$1.00

84 A 814—**Set of 5** of above chisels. ¼, ½, ¾, 1, 1½-in. Ship. wt. 2 lbs. 4 oz.....**$3.49**
84 A 808—**Set of 4.** 3-in. Butt chisels—¼, ½, ¾, 1-in. sizes; Standard polish. Ship. wt. 1 lb. 8 oz....**$2.10**

Wards Eclipse 35c ¼-in.
- 3-in. butt type Carbon Tool Steel Blades.
- Polished finish.

Heat treated and tempered blades. Hickory handles securely fastened—ends leather tipped to prevent mushrooming. **State size.**

Size In.	Ship. wt.	84A800 Each
¼	5 oz.	35c
½	6 oz.	37c
¾	6 oz.	45c
1	7 oz.	49c

84 A 801—**Set of 4.** ¼, ½, ¾, 1-in. Ship. wt. 1 lb. 4 oz...**$1.59**

Chisel Handles — leather tipped like above. Ship. wt. 4 oz. **State size chisel.**
84 A 802—For Butt type..8c; 2 for...15c
84 A 864—For Firmer type..8c; 2 for...15c

COMBINATION PLIERS

- Heat Treated Jaws
- Tough Alloy Steel



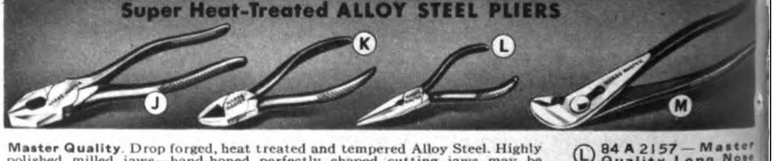
Milled jaws. Slip joint. Rust-resisting finish. **10c** Eclipse Quality

84 A 2201—**GOOD. Eclipse Quality.** Drop forged tempered steel—cadmium plated. Smooth handles. 6-in. Wt. 10 oz..10c
84 A 2200—**BETTER. Lakeside Quality.** Drop forged tempered steel—knurled handles. Nickel-plated finish. Shipping weights: 8 oz.; 10 oz.; 1 lb. **State size.**
5-inch.....29c; **6-in**.....32c; **8-in**.....42c
84 A 2191—**BEST. Master Quality.** Drop forged super-heat treated chrome alloy steel—knurled handles. Rust-resisting. Nickel plated. Ship. wts. 10 oz., 1 lb., 1 lb. 8 oz. **State size.**
6-inch.....49c; **8-inch**.....65c; **10-inch**.....79c

Thin Nose Type
(G) **Lakeside Quality.** Drop forged, tempered steel—highly polished, rust-resisting Nickel plated finish. Milled jaws; knurled handles. Slip joint. 6-in. Ship. wt. 10 oz.
84 A 2212—Bent Nose... **39c**
84 A 2213—Straight Nose **35c**

Side Cutting
(H) **Lakeside Quality.** Handy Pliers for all-round use. Drop forged tempered steel—highly polished. Sharpened side cutter. Milled jaws; slip joint; knurled handles. Rust-resisting Nickel plated finish. 7 in. long. Wt. 10 oz.
84 A 2202....39c

Super Heat-Treated ALLOY STEEL PLIERS



Master Quality. Drop forged, heat treated and tempered Alloy Steel. Highly polished milled jaws—hand-honed perfectly shaped cutting jaws may be resharpened! Knurled handles—blued finish. Precision-fitted joints—work smoothly. Tempered rivet. No finer pliers made!

Eclipse Quality. Drop forged and heat treated High Carbon Steel. Milled and polished jaws; knurled handles for slip-proof grip. Open and close freely.

(J) **For Linemen and Electricians** — side cutting type. With features described above. Ship. wts.: 6-inch size — 12 oz.; 7-inch size — 1 lb.; 8-in. size—1 lb. 8 oz. **State size.**

Length In.	Linemen's Pliers Eclipse 84A2180	Master 84 A 2154	Electricians' Master 84 A2152
6	49c		$1.10
7		$1.59	1.25
8	65c	1.75	1.35

(K) 84 A 2156—**Master Quality Diagonal Type.** Tempered with features described above. **State size.** Ship. wts. 8 oz.; 10 oz.
5-inch...$1.19; **6-inch**....**$1.45**
84 A 2159—**Master Quality.** Heavy Duty Diagonal Type. Plain joint. Ship. wt. 12 oz. **7-in**..**$1.25**
84 A 2187—**Eclipse Quality** (not shown). Tempered cutter edge plus other features described above.
5-inch size. Ship. wt. 6 oz....**45c**
6-inch size. Ship. wt. 8 oz....**59c**

(L) 84 A 2157—**Master Quality Long Nose Type** for tight places. Honed side cutters plus features at left. 6½ in. Ship. wt. 8 oz.....**$1.15**
84 A 2166—**Eclipse Quality** (not shown). Tempered jaws. 5½-inch size. Ship. wt. 8 oz.....**25c**
(M) 84 A 2222—**Master Quality Combination Plier-Wrench**—parrot nose for better leverage than straight nose. Slip joint has 3 adjustments. Tempered rivet. Plus features at left.
7-inch. Ship. wt. 8 oz.**$1.19**

49c
No. 24

Carpenters' Steel Squares—Precision Built

Made from one piece of steel. Hardened corners stay square . . . won't become blunt! Tapered in thickness from angle outward . . . lie perfectly flat. Markings guaranteed accurate!



(N) **Master Quality Rafter or Framing Square No. R100C.** 16 by 24 in.—body 2 in.; tongue 1½ in. Gives length of common hip, valley and jack rafters—and their angles to fit at ridge and plate. Graduations on face, 1/16 and ⅛ in.; back, 1/16, ½ and 1/10 in. Essex board measure on body of square. Octagon and 100ths scale on tongue of square. Rust-resisting Royal Copper finish. White enameled markings for quick, easy reading. Instructions included.
484 A 1894—Ship. wt. 3 lbs. **$1.95**
Add it to your credit order—see Inside Back Cover

(P) 484 A 1888—**Eclipse Quality Steel Square No. 24.** 12 by 24 in. (not tapered). Graduated in ⅛ and ¼-in. on face and back square. Polished finish. Ship. wt. 2 lbs.....**49c**
(R) 484 A 1870—**Lakeside Quality Steel Square No. 14.** 16 by 24 in. Graduated ⅛ and ¼-in. on face—¼ and 1-in. on back. Essex board measure on body. Polished. Wt. 2 lbs. **95c**
(S) 484 A 1874—**Lakeside Quality Steel Square No. 3B.** 16 by 24 in. Graduated 1/16 and ¼ in. on face—½ and ¼ in. on back; Essex board and brace measure stamped on body. Blued finish, white enameled markings. Instructions. Ship. wt. 4 lbs. **$1.59**

1088 WARDS CBA



Master Quality Fence Pliers. Cut and splice up to No. 9 wire; lift bent lugs on steel posts; stretch wire; hammer head. Forged, heat treated Chrome Alloy Steel. Polished and hardened jaws; blued finish knurled handles. 10¼ inches overall.
84 A 2232—Ship. wt. 1 lb. 12 oz.....**$1.25**
84 A 2234—**Eclipse Quality.** Smooth handles; nat. fin alloy steel. Wt. 1 lb. 12 oz **98c**

Lakeside Quality Button Pattern Pliers. Tempered drop forged steel—polished head; blued knurled handles; 2 side wire cutters.
84 A 2155—Wts. 1¼ lbs.; 1⅜ lbs. **State size.**
8-in 95c; **10-in** .**$1.10**

Lakeside Quality Carpenters' Nippers. Tempered forged steel. One end—screw driver; other end—claw. Polished tips and jaws. Hammer head; wire cutter.
84 A 2188—**State size.**
6-in. Ship. wt. 12 oz.....69c
8-in. Ship. wt. 1 lb.....79c

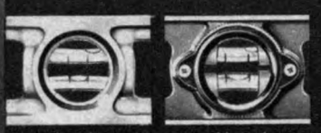
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WOOD LEVELS



Weatherproof, Laminated Construction Prevents Warping

WARP-PROOF ALUMINUM LEVELS



Non-Adjustable Vials Set Solid at Factory

Adjustable Vials can Easily be Reset

Guaranteed "Factory Built-in Accuracy"

Wood Levels for All General Purposes

Eclipse Quality 2-Glass Level. Red shed pine. 1 plumb, 1 glass with top sight. 18-inch 65¢
d grips. **State size.**
A 2057—18-in. length. pping weight 1 lb. 6 oz...65c
n. lgth. Wt. 1 lb. 14 oz...85c

Master Quality 4-Glass Level. 2 24-inch 98¢
ls—2 plumbs—pro-ted level glasses! terproof red finished pine. venient hand grips.
A 2058—**State size.**
n. length. Wt. 1 lb. 12 oz.98c
n. length. Wt. 2 lbs....$1.15

Carpenters' and Masons' 6-Glass Levels

Master Quality. Warp-proof. All inspected and tested. All have heavily protected glasses. 4 plumbs—2 levels . . . hand striped.

Ⓒ **Carpenters' Level.** $1.75
el. $2.00 value. 28 in. select, seasoned pine—waterproof red finish. Brass end plates for long wear, Shipping weight 2 lbs.
584 A 2059.....$1.75

Ⓓ **Carpenters' Level.** $2.15
el. $3.50 value. 6 colored liquid Cat's eye glasses. 24 in. *Laminated* for extra strength. Made from walnut and redwood. Metal end plates reinforce wear points. Waterproof lacquer finish. Shipping weight 2 lbs. 4 oz.
584 A 2065.....$2.15

Ⓔ **Masons' Level.** $2.59
$3.50 value. 48 in. straight grain sugar pine—waterproof red finish. Brass end plates reinforce level where most wear occurs. Ship. wt. 3 lbs.
484 A 2061.....$2.59

Ⓕ **Masons' Level.** $4.25
$5.00 value. Oval openings for Cat's eye glasses. 48 in. Laminated pine and mahogany. Metal end plates reinforce level where most wear occurs. Waterproof lacquer finish. Ship. wt. 3 lbs.
484 A 2063.....$4.25

"I-Beam" Construction for Extra Strength at Strain Points!

See pictures at left. Notice the heavier, the thicker construction of Wards Master Quality Aluminum Level (1) compare it with thinner (less metal), lighter construction of standard pattern (2). That's why Wards levels are warp-proof—last longer than ordinary levels. Made of special Aluminum Alloy for greater durability and light weight—won't rust! Machine-cut, milled edges—tested on Brown & Sharpe Straightedge!



Ⓖ **Master Quality Aluminum Level.** $2.25
el. Machined, polished surfaces. 6 24-in.
solid set, "True Arc," hand striped vials—protected by heavy glass discs —4 plumbs, 2 levels. Red trim. **State size.**
584 A 2093—**State length wanted.**
24-inch. Ship. wt. 2 lbs. 8 oz.....$2.25
28-inch Level. Ship. wt. 2 lbs. 12 oz.....2.49

Ⓗ **84 A 2056—9-in. Torpedo Level**—Solid Walnut—aluminum top plate. 1 plumb, 1 level, one 45° glass. Wt. 6 oz.....69c

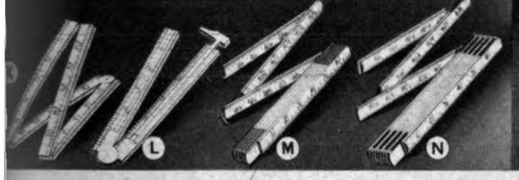


Master Quality Adjustable Aluminum Level (*not shown*). 6 hand-striped vials set in individual metal cases—adjust by removing Phillips' screws and turning vials to level. Glasses protected by heavy glass discs—2 levels, 2 plumbs, 2 at 45°. Ground, polished surfaces assure complete accuracy. Red inside trim.
584 A 2090—24-in. long. Ship. wt. 2 lbs.$3.65

Ⓙ **84 A 2089—4-in-1 Aluminum Level.** Use as line, surface, shaft and regular level. 3-in. Pocket size. Ship. wt. 2 oz. 29c

WARDS GUARANTEE SATISFACTION OR YOUR MONEY REFUNDED

FOLDING RULES—Tested for Accuracy!



For Inside Measurements





2-ft. Boxwood Rule. Round joints and ends of brass. 1 in. wide, 4-fold. Graduated in 8ths, 16ths inch.
4A1802—Ship. wt. 4 oz. 14c

Boxwood Caliper Rule. Open 1 ft.—2 fold. Graduated 8ths, 10ths, 12ths, 16ths. Brass tips, square joint. Machined Brass caliper slide graduated 16ths, 32nds in. 1⅜ wide.
4A 1823—Ship. wt. 4 oz.85c

6-ft. Aluminum Rule. Black stamped markings in 16ths in.—can't wear off! Brass spring joints.
4 A 1843—Ship. wt. 9 oz.98c

Ⓝ **GOOD—Eclipse Quality.** Seasoned Maple. Graduated 16ths in. Steel spring joints. 6 ft. long. Yellow finish.
84 A 1840—Ship. wt. 7 oz.....12c

BETTER—Lakeside Quality. 6 ft. long. Seasoned Maple. Graduated 16ths of inch on both sides. Standard markings. Brass plated steel joints. White enameled.
84 A 1841—Ship. wt. 7 oz.....18c

BEST—Master Quality. 6 ft. select, seasoned Maple. All edges graduated 16ths in. White enameled; stainless steel spring joints, tips, strike plates. Ship. wt. 7 oz.
84 A 1849—Standard markings.....45c
84 A 1848—Inside markings—numbers begin on inside; lies flat.....49c

Ⓟ **6-ft. Extension Rule.** Yellow finish, select, seasoned straight-grain maple. White finish, thicker first leg has 7-in. graduated brass slide for inside measurements. Edges graduated in 16ths of inch. Brass plated strike plates and concealed spring joints.
84 A 1844—Shipping weight 10 oz.....59c

Ⓡ **Master De Luxe Steel Rule**—6-ft. nickel plated flexible steel tape, ½-in. wide—both edges graduated 16ths full length, 32nds on first 6 in. of top edge. Direct reading for making inside measurements.
Flexible-rigid for measuring curved or straight distances. End hook. Nickel plated steel case.
84A2042—Shipping weight 8 oz.95c

Ⓢ **Master Quality** 6-ft. Nickel plated Flexible-rigid Steel tape—½-inch wide. Graduated 16ths in. both edges; 32nds on 6 in. of top edge. End hook. Stainless Steel case.
84 A 2054—Ship. wt. 8 oz.....75c

Ⓣ **Lakeside Quality** 6-ft. Nickel plated removable Flexible Steel tape—⅜-in. wide. Grad. 16ths in. both edges; 32nds on 6 in. of top edge. End hook. Nickel plated steel case. Shipping weight 8 oz.
84 A 2045.....50c

Ⓤ **6-ft. Steel Rule** with push button recoil! Graduated 8ths, 16ths both edges, 32nds on 6 in. of top edge. End hook. Shipping weight 8 oz.
84 A 2052.....25c

Ⓥ **Master Quality** flexible ⅜-in. steel tapes. Meet United States Government Standards. Graduated in feet, inches and 8ths of an inch. Artificial leather covered steel case. Nickel plated mountings. Folding handle for winding up tape.
84 A 2041—**State length wanted.**
50-ft. Ship. wt. 1 lb.....$2.98
100-ft. Ship. wt. 1 lb. 8 oz.....4.98

Ⓦ **½-in. Yellow Cotton Tape**—Graduated in feet, inches and ¼ inches. Green enameled steel case; brass edge, folding handle for winding up tape.
84 A 2043—**State length wanted.**
25-ft. Shipping weight 8 oz.....39c
50-ft. Shipping weight 12 oz.....55c
100-ft. Shipping weight 1 lb.....$1.10

WHY LOSE TOOLS? Keep them handy in a Ward Tool Box!



Machinists' Oak Chest $12.75 Cash

18.00 Valuel No. 1 solid ½-in. ak—except back of ⅜-in. oak. Dovetail construction. 20 by 12½ by 9⅛ in. wide. Till, 2 long and 3 short drawers have galv. steel bottoms—felt lined. Steel drawer slides. Hand rubbed finish on box, drawer fronts. Cylinder type lock —2 keys. Mirror. Leather handle. Shipping weight 26 lbs.
484 A 2782—*Maialble*..$12.75

Steel Covered Wood Box $10.75 Cash

Best grade kiln-dried 3-ply fir, covered with 32-ga. sheet steel—can't warp, crack, or split. 28-ga. steel edges. 20 by 12½ by 9 in. wide. Six hand fitted drawers have 24-ga. galv. steel felt-lined bottoms. Steel drawer slides. Leather handle. Mirror in lid. Lock, 2 keys. Ripple finish. Shipping weight 20 lbs.
484 A 2780—*Maialble*..$10.75

Machinists' 20-in. Tool Box $7.45

32-gauge steel covered frame—3-ply kiln-dried Fir. 28-gauge steel edges, 20 in. by 12 in. by 9 in. wide. 3 large, 5 small oak front drawers with felt-lined, galv. steel bottoms—slide on steel rails. Front cover slides under bottom drawer. Built-in tumbler lock for drawers and cover; 2 keys. Leather grip. Black ripple finish. *Maialble*.
484 A 2779—Wt. 24 lbs..$7.45

Wards PRECISION TOOLS for Accuracy!



Micrometer Caliper

Ⓐ Accurate to 1/1000-ths of an inch. Hardened steel spindle and anvil. Solid construction; has high degree of accuracy. Anvil is adjustable for wear. Capacity 0 to 1 inch. Decimal equivalents for 8ths, 16ths, 32nds, and 64ths, shown on frame. Instructions for operation are included.
Shipping weight 7 ounces.
84 A 2582.....89c

Famous Union Tool Company Precision Tools

Dividers and Calipers Accurately machined. Crucible steel legs. Tempered steel springs. **State size.**

Ⓑ **84 A 2614**—Precision Dividers.

Ⓒ **84 A 2613**—Outside Calipers.

Ⓓ **84 A 2612**—Inside Calipers.

Size	Ship. wt.	Price
6-in.	6 oz.	79c
8-in.	8 oz.	89c

Ⓕ **84 A 2603—Machinists' Combination Square with Center Head**—Use as try-square, level, miter, ruler, depth and marking gauge. Hardened 12-in. steel scale—accurate to .0002-in. Graduations diamond etched in 8ths, 16ths, 32nds, 64ths in. Level glass, scriber. Center head measures diameters. Wt. 1 lb. 10 oz...$2.89
84 A 2529—Carpenters' Combination Square only (not shown). 12-in. ground steel scale—graduated 16ths-in. one side—32nds other side. Level glass, scriber. Ship. wt. 1 lb. 4 oz.....89c

Ⓔ **84 A 2604—Machinists' Bevel Protractor**—fits 12-in. combination square above. Reversible, universal—reads both sides. Accurate level. Head turns 360°—0 to 180° right and left. Shipping weight 1 lb.....$2.65

32-Inch Carpenters' Chests



Wood-Covered Steel $5.45

Best grade kiln-dried 3-ply fir, completely covered with 32-gauge cold rolled steel with 28-gauge steel reinforced edges—can't warp, crack, or split. Sliding drawer for small tools, brackets to hold a level and saws and space for a 2-foot square and other tools. Wood construction protects tools. Hardware nickel plated—riveted. Automatic lock, 2 keys. Leather handle. 32 x 16 x 7-in. Rust resisting ripple finish.
484 A 2778—Shipping wt. 20 lbs. *Maialble*..$5.45



All-Steel Gable Top $3.59

Body and top both made of 22-gauge steel—all joints spot welded for greater strength—4 corner-iron reinforcements at bottom. 32 in. by 8 in. by 10 in. high. Extra wood bottom protects saws and other edge tools—slotted to hold saws upright. Slot in top for square; level clips at back; Strong metal reinforced leather handles at top and one end. Hasp for locking. Baked-on ripple enamel.
484 A 2777—Shipping wt. 17 lbs. *Maialble*..$3.59



Ⓖ **Feeler Gauges.** Swedish steel. Wt. 3 oz.
84 A 2573—**15-leaf.** 3½ in. long. .002 to .025.....39c
84 A 2575—**8-leaf.** $1.50 value. 6-in. Tapered blades. .002 to .015.....85c

UNION TOOL CO.

Ⓗ **Machinists' Scales.** Diamond etched grad.
84A2561—**Flexible Steel.** Graduated in 32nds, 64ths. Pocket clip. Wt. 4 oz...59c
84 A 2562—**Stiff Steel.** Grad. on two sides in 8ths, 16ths, 32nds, and 64ths. No clip. Ship. wts. 4 oz. and 6 oz. 6-in...85c; 12-in...$1.29

Ⓙ **84 A 2621—Reference Table with Rule**—Stainless steel. Decimals, fractions, 6-in. rule (32nds) on one side; tap, drill data, 6-in. rule (64ths) on other side. 6¾-in. long. Ship. wt. 4 oz.36c

Ⓛ **84 A 2617—Tap and Drill Gauge.**—hardened tempered steel—ground finish. Holes for machine screw drills—sizes 1 to 60; decimal equivalents. Table shows tap body drills to use for tap sizes.
Shipping wt. 5 oz...79c

Ⓝ **Vernier Caliper**—Stainless Steel. Inside and outside calipers plus depth gauge. Divides, scribes circles, etc. 5-in. capacity—graduated 16ths, 32nds—very close readings on vernier scale. 7 in. long.
84 A 2616—Shipping weight 5 oz.....89c

Ⓜ **Protractor** with 3⅜x2-in. head—has 4 working surfaces. Hardened, tempered Stainless Steel. For transferring angles, setting bevels, etc. Locks with knurled nut. Graduated 0 to 180°—both ways. 8-in. arm.
84 A 2619—Ship. wt. 2 oz.....89c

Ⓚ **Multi-Use Rule.** Drill Point Gauge graduated 0 to 180°. Has 4-in. 32nds and 64ths scale; square; bevel protractor; center finder; circle divider—up to 9 parts; tap drill table for National Form of thread. Stainless Steel.
84 A 2618—Leather case. Ship. wt. 2 oz.85c



Mechanics' Tool Box $2.95

Hip roof style, 19 by 7¼ by 9 in. deep. 22-ga. steel, 18-ga. ends. Liftout tote tray, 18 by 7 by 4½-in. All parts electrically welded. Corner brackets. Steel piano type hinges; hasp. Leather handle. Black ripple finish. Wt. 12½ lbs.
484 A 2788.....$2.95

Finest Tool Box $2.35 19-in.

Post style leather handle. Best, strongest type. Round corner construction. 22-ga. steel body. Electrically welded. Tray rises automatically. Piano type hinges; Ripple enamel finish.
484 A 2760—19 by 7 by 7-in. Shipping wt. 8 lbs.....$2.35
484 A 2761—22 by 7 by 7-in. Shipping wt. 9 lbs.....$2.75

Heavy Duty Box $1.35 15-in.

24-ga. steel body. Rounded corners. Partitioned tray rises with lid. Self-lock. Ripple finish. Steel handle.
484 A 2755—15 x 7 x 7. Wt. 5 lbs..$1.35
484 A 2756—19 x 7 x 7 in. Wt. 7 lbs..$1.65

Tool Box 59c

26-ga. steel—12⅜ x 6½ x 5⅝-in. deep; rounded corners. Rising tray. Automatic lock. Key. Baked green enamel finish.
84 A 2768—Wt. 3 lbs. 4 oz. .59c



Sliding "T" Bevel 39¢ 6-in.

Machined blued steel blade—locks any angle! Rosewood handle—Brass tip. **State size.**
84 A 1926—
6-inch blade Wt. 6 oz.....39c
8-inch blade Wt. 7 oz.....45c
10-inch blade Wt. 8 oz.....50c

Try Square 49¢ 6-in.

Graduated in ⅛ in. Blued steel blade securely riveted to handle of Rosewood—Brass faced. **State size.**
84 A 1916—
6-in. blade Wt. 8 oz.....49c
7½-in. blade Wt. 10 oz..55c

Butt Gauge $1.35

For door hanging, mortise work; also marking gauge—3 markers. Grad. 16ths for 2 in. Nickel plated. Wt. 12 oz.
84A2331.$1.25

Wing Dividers 55¢ 6-in.

Made of tool steel—with tempered points. Thumb screw and nut adjustment. **State size wanted.**
84 A 2284—
6-in. Ship. wt. 8 oz.....55c
8-in. Ship. wt. 12 oz.....65c

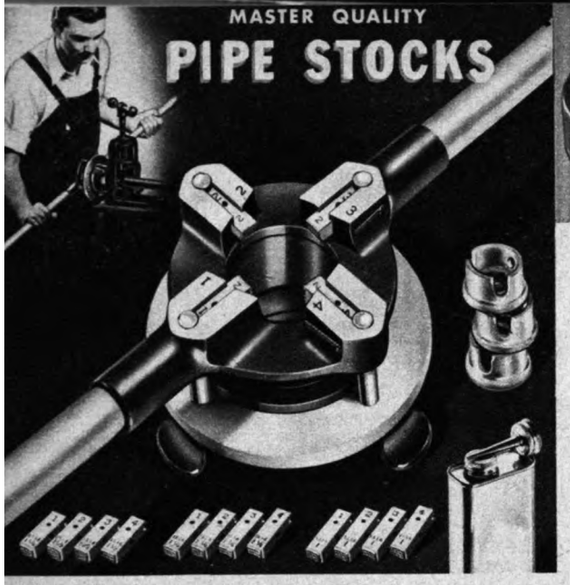
Marking Gauges 22¢ 8½-in

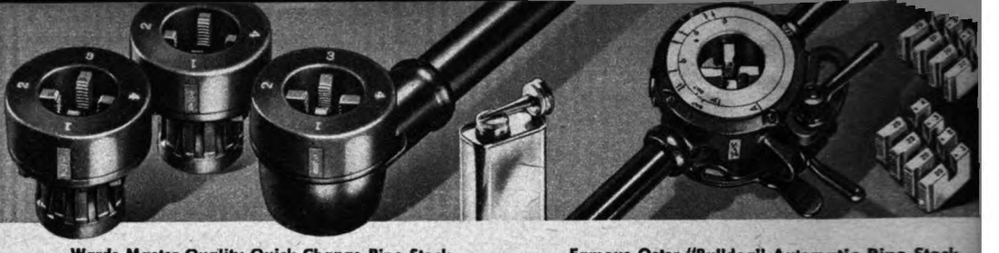
Boxwood. Brass screw, face plate. 6-in. rule graduated 16ths. Steel end pin. Wt. 8 oz.
84 A 2325—8½ in.85c
Beechwood. Wood screw—6 inch rule marked 16ths. Wt. 6 oz.
84 A 2324—8½ in.22c

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MASTER QUALITY

PIPE STOCKS





Wards Master Quality Quick Change Pipe Stock

- With Accurate-cutting Tool Steel Die Heads.
- Quick-changing die head for each size of pipe.
- Dies and Guides combined into single unit.

⅜ to ¾-in.

$10.50 Cash

$2 A MONTH

See Inside Back Cover

Ratchet Type—Easy to use—speeds up your work—no adjustments necessary. Tool steel dies cut clean, accurate. American Standard right hand threads—die heads have rust-resisting Parkerized finish. Made for Wards by a leading manufacturer. ½ pt. threading oil incl.

484 A 7410—With 3 quick-change die heads that thread ⅜, ½, ¾-in. pipe. In metal carrying case. Shipping weight set, 12 lbs.. $10.50

484 A 7415—With 4 quick-changing die heads that thread ½, ¾, 1, 1¼-in. pipe. In wood box. Ship. wt. set, 20 lbs.... $14.75

Famous Oster "Bulldog" Automatic Pipe Stock

- Self-locking, self-centering, universal guides.
- No backing off—Dies open and release stock.

½-1¼ in. P

$11.10 Cash

$2 A MONTH

See Inside Back Cover

Positive grip of forged steel lever-locking device insures accurate, clean threads. American standard right hand tapered threads. Each set of dies threads two sizes of pipe—also under and oversize pipe. Dies are hollow ground. Lever resets dies to size.

State Stock No.	484 A 7412—Plain Type			484A7413—Ratchet Ty		
Size Pipe Die Threads	Stock No.	Ship. wt.	Complete	Stock No.	Ship. wt.	Comp
½, ¾, 1, 1¼-in.....	112½	15 lbs.	$11.10	112½ R	21 lbs.	$14.
½, ¾, 1, 1¼, 1½, 2-in.	114	20 lbs.	17.00	114 R	29 lbs.	20.

Wards Heavy Duty Precision Pipe Stock

- Receding die principle reduces friction—gives you clean-cut, leakproof and full taper threads.
- Finest tool steel dies—hardened and tempered.

Regular 1 to 2-in.

$10.95 Cash

$2 A MONTH

See Back Cover

Cuts American standard right hand taper threads. Guides precision machined for accuracy. A receding die threads 2-in. pipe as easy as a solid die threads 1¼-in. pipe. This principle gives a longer, more tapered thread and so a tighter, leakproof joint. 4 sets of dies—thread size 1, 1¼, 1½, and 2-inch pipe. With ½-pint can of threading oil.

484 A 7406—Regular Receding Die Stock. Ship. wt. 22 lbs.....$10.95

484 A 7407—Ratchet Receding Die Stock. Same as above except with ratchet. This ratchet stock can be used in cramped spaces and gives greater leverage—easier to use. Shipping weight 27 lbs..... $12.75

Repair Parts for All Wards Pipe Stock Sets Are Always Available



Greenfield Adjustable Die Stock

- Tool steel dies cut standard, over and undersize threads.
- Smooth finish guides for each size dies. Wrench included.

$6.75

½ to 1-in.

2-piece dies—hardened, tempered. Cut American standard right hand taper threads on Iron or Brass pipe. Malleable iron stock, detachable handles. Ship. wts. 10, 12, 14 and 25 lbs.

Article No.	Stock No.	Size Pipe Die Thrds.	Set
484 A 7389	292D	½, ¾, 1-in.	$6.75
484 A 7394	292	¼, ⅜, ½, ¾, 1-in.	9.25
484 A 7395	292½	½, ¾, 1, 1¼-in.	10.75
484 A 7396	293	1¼, 1½, 2-in.	13.95

Greenfield "OK" Solid Die Stock

- With drop forged, hardened, tempered dies of tool steel.
- Cut American Standard tapered right hand threads.

$5.75

½ to 1-in.

Individual guides for each cutting size, except 1-inch size where stock itself serves as the guide. Malleable iron stock—practically unbreakable! Handles easily removable. Use 84 A 7419 threading oil below. Ship. wts.: 10 and 11 lbs.

Article No.	Stock No.	Size Pipe Die Threads	Set
484 A 7388	1A	½, ¾, 1-inch	$5.75
484 A 7391	1	¼, ⅜, ½, ¾, 1-in.	7.75

Wards Lakeside Solid Die Sto

- Chrome-Vanadium Steel Dies cut American Right Hand Threads.

$3.8

½ to ¾

Malleable iron stock with ea locking plate is guaranteed agai breakage. Dies hardened and te pered for long life. Rustproof A minum finish guides and handl Ship. wts. 9 lbs. 4 oz.; 11 lbs.

484 A 7479—2 Dies and Stock thread ½ and ¾-inch pipe..$3.

484 A 7478—4 Dies and Stock thread ⅜, ½, ¾, 1-in. pipe....$5.



Famous "Trimo" Pipe Wrenches

- An all-steel wrench—including frame.
- Heat treated and tempered Alloy Steel.

Preferred by Master Plumbers and Steamfitters. Jaws and handle Chrome Molybdenum, Manganese and Nickel Alloy Steel. Guaranteed unbreakable! Extra hard jaws with machine cut teeth. Replaceable jaw in handle. Knurled thumb screw. Polished frame and jaws. State size.

Length Open	Takes Pipe	484 A 7485 Ship. wt.	Each
6 in.	½ in.	10 oz.	85c
8 in.	¾ in.	1 lb.	99c
10 in.	1 in.	2¼ lbs.	$1.32
14 in.	1½ in.	4 lbs.	1.79
18 in.	2 in.	6 lbs.	2.49
24 in.	2½ in.	9 lbs. 10 oz.	$4.35

Master Quality Stillson Wrenches

- Vanadium-Alloy Steel jaws and handle.
- The only Stillson type wrench with Replaceable jaw in handle—doubles its life!

Carries twice load needed to meet U. S. Navy and Federal Standards—guaranteed unbreakable! Tests prove Wards Master *20% stronger* than famous malleable iron wrench. Jaws hardened, tempered—milled teeth. A finely polished top quality wrench. State size.

Length Open	Takes Pipe	84 A 7492 Ship. wt.	Each
6 in.	½ in.	8 oz.	55c
8 in.	¾ in.	1 lb.	79c
10 in.	1 in.	1¾ lbs.	98c
14 in.	1½ in.	3 lbs.	$1.35
18 in.	2 in.	4 lbs.	1.95
24 in.	2½ in.	8 lbs.	$3.30

Lakeside Quality Stillson Wrenches

- Carry more than twice the load required to pass U. S. Navy specifications by test!
- Exceed Federal Pipe Wrench Standards.

Made by one of America's largest makers of wrenches. Drop forged special analysis steel—heat treated, tempered. With red frame and handle tip. Jaws have milled teeth—won't slip. For Plumbers, Steamfitters and Mechanics. Polished finish. Many stores would call this wrench "Best." State size.

Length Open	Takes Pipe	84 A 7490 Ship. Wt.	Each
8 in.	¾ in.	1 lb.	54c
10 in.	1 in.	1¾ lbs.	75c
14 in.	1½ in.	3 lbs.	98c
18 in.	2 in.	4¾ lbs.	$1.39
24 in.	2½ in.	8 lbs.	$2.50

Eclipse Quality Stillson Wrenches

- Carry up to twice the load required to pass U. S. Navy specifications. Exceed Federal Pipe Wrench Standards.

Drop forged steel head and handle—heat treated and tempered. Milled teeth. The finest Wrench we know of at this low price—thoroughly serviceable. A good wrench for use around your home. State size. Art. No.

Length Open	Takes Pipe	84 A 7488 Ship. Wt.	Each
8 in.	¾ in.	1 lb.	45c
10 in.	1 in.	1¾ lbs.	54c
14 in.	1½ in.	3 lbs.	75c
18 in.	2 in.	4¾ lbs.	98c
24 in.	2½ in.	8 lbs.	$1.89
36 in.	3½ in.	20 lbs.	4.75

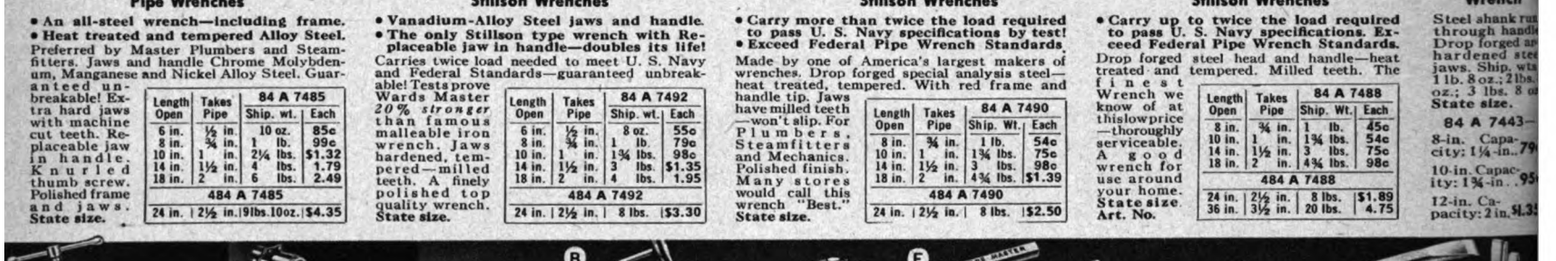
Monkey Wrench

Steel shank ru through handl Drop forged st hardened stee jaws. Ship. wts 1 lb. 8 oz.; 2 lbs. oz.; 3 lbs. 8 o State size.

84 A 7443—8-in. Capacity: 1¼-in.. 79

10-in. Capacity: 1¾-in.. 95

12-in. Capacity: 2 in. $1.35



Frame and Base high test Malleable Iron. Tempered tool steel jaws cut from bar stock—milled teeth for positive grip. Red enamel finish. Vise opens so pipe can be removed sideways. With machine bolts.

84 A 6882—For ⅛ to 1½-in. pipe. Wt. 4 lbs. 13 oz. $1.49

584 A 6884—For ⅛ to 2½-in. pipe. Wt. 8 lbs.....$2.98

484 A 6885—For ⅛ to 3½-in. pipe. Wt. 20 lbs....$4.15

Flat link type. Tool steel jaws—grip round, flat or hexagon stock with quarter turn of lever. Flat link chain gives firm grip. Extra strong base and handle. For bench or post. Capacity: ⅛ to 2½ in. pipe. With bolts for mounting. Ship. wt. 5 lbs.

84A6886 Each.. $2.98

Saunders Pattern Pipe Cutters

(B) Lakeside Quality. 1 tool steel cutting wheel, 2 steel rollers. High test malleable iron frame.

84 A 7546—No. 1. Cuts ⅛ to 1-in. pipe. Ship. wt. 3 lbs. 12 oz.. $1.89

84 A 7548—Extra wheel. For No. 1 Cutter. Ship. wt. 2 oz..... 22c

84 A 7547—No. 2. Cuts 1 to 2-inch pipe. Ship. wt. 7 lbs..... $3.15

84 A 7549—Extra wheel. For No. 2 Cutter. Ship. wt. 2 oz..... 25c

Tempered End-Burring Reamer

(C) Forged heat treated Vanadium steel won't chip—fits bit brace. Ship. wts.: 8, 10 oz., 1 lb. 8 oz.

84 A 7378—For ⅛ to 1-in. pipe. 89c

84 A 7379—For ¼ to 1¼-in. $1.15

84 A 7380—For ¼ to 2-in.... 1.89

Greenfield Taper Pipe Taps

(D) Heat treated, tempered, hardened tool steel. American Standard right hand taper. Cut clean, accurate pipe threads.

84 A 7374—State size wanted.

Thread Size	Ship. Weights	Price Each
⅛-in.	2 oz.	44c
¼-in.	3 oz.	54c
⅜-in.	5 oz.	72c
½-in.	6 oz.	89c
¾-in.	9 oz.	$1.25

Oster Threading Oil

(E) Meets Federal spec. Sulphur base. Ship. wt. 1 lb. 6 oz.

84 A 7419—Pint..... 30c

4 Pints for..... $1.09

Wards Punches and Chisels

Master Quality. Drop forged chrome vanadium steel—heat treated, and tempered. Beveled square stock. Rust-resisting Chromium plated. Polished taper. Correctly ground.

Lakeside Quality—Hexagon forged carbon tool steel—hardened, tempered, Black finish.

(F) Steel Punches State size			(G) Cold Chisels State size			
Diam. Point In.	Ship. Wt. Oz.	84 A 7076 Master	Width Edge	Ship. Wt. Oz.	84 A 7067 Master	84 A 7072 Lakeside
⅛	6	24c	½ in.	5	27c	12c
5/32	6	25c	⅝ in.	12	37c	15c
3/16	8	27c	¾ in.	16	47c	19c
¼	8	29c	⅞ in.	20	59c	...

(H) 84 A 7069—Master Quality Line-Up Punch. Chrome Vanadium Steel. ½ by 9 in. Heat treated, tempered. Wt. 9 oz. 45c

(J) 84 A 7071—Master Quality Jimmy Bar. ½-in. Chrome Vanadium steel—also lineup punch. 14 in. long. Ship. wt. 14 oz.. 79c

(K) 84 A 7066—Master Quality Center Punch. ⅜-in. Chrome Vanadium steel—4½ in. long. Shipping wt. 4 oz..... 21c

(L) 84 A 7064—Master Quality Prick Punch. ⅜-in. Chrome Vanadium steel—4½ in. long. For machinists, metal workers, etc. Ship. wt. 4 oz... 21c

5-Piece Punch and Chisel Set

84 A 7061—Master Quality. Forged Chrome Vanadium steel, Chrome plated. 2 chisels ½, ⅝-in.; center punch; 2 solid punches, ⅛, 5/32 in. Metal holder. Wt. 1 lb. 8 oz. .98c

84 A 7063—Eclipse Quality. Carbon steel. 2 chisels, 3/16, ⅜-in.; center punch; 1/8, 3/16-in. solid punches. Metal clip. Shipping weight 1 lb. 4 oz..... 35c



Master Quality 59c 4-in. Lakeside Quality 35c 4-in.

(N) Wards Master Quality. The thinnest, yet the strongest for its size! Jaws are actually 40% thinner—but three times stronger than ordinary standard patterns! Easy to get into narrow places. Drop forged *Molybdenum Alloy Steel*—4 times stronger than carbon steel, tempered, heat treated. Tested and approved for hardness with the Scleroscope. Polished chromium plated head—buffed handle—rust-resisting. Handy 12-point box wrench broached in end of handle.

(P) Lakeside Quality. Thin pattern. Heat treated, forged steel jaws and head. 12-point box wrench broached in end of handle of all but 15 and 18-in. sizes.

84 A 7460—Master Quality.

Size In.	Opens In.	Ship. Weight	Each
4	½	4 oz.	59c
6	¾	6 oz.	69c
8	1 5/16	9 oz.	79c
10	1½	1 lb. 4 oz.	$1.09
12	1 5/16	1 lb. 12 oz.	1.49

84 A 7458—Lakeside Quality.

Size Inches	Opens Inches	Ship. Weight Lbs. Oz.		Price Each
4	½		4	35c
6	¾		8	45c
8	1 5/16		12	55c
10	1½	1	4	69c
12	1 5/16	2		$1.10
15	1 11/16	4	4	1.49
18	2 1/16	7		1.98

Save More at Wards



$1.35 Set of 4 Wrenches

$2.25 Set of 6 Wrenches

Heat-treated and oil tempered Molybdenum Alloy Steel. *Four times stronger than ordinary carbon steel.* Extra strong channeled construction handle. Thin-tapered, accurately milled jaws for getting in narrow places—actually 40% thinner, and yet three times stronger than ordinary standard pattern wrenches. Jaws fit nuts exactly—won't slip! Two-tone—satin and polished—rust-resistant Chromium plated finish. Sets in handy metal clip.

84 A 7531—Set of 4 Wrenches. ⅜ by 3/16; ½ by 5/16; 13/32 by 11/16; ⅝ by ¾. Shipping weight set, 1 lb. 6 oz..... $1.35

84 A 7532—Set of 6 Wrenches. ⅜ by 3/16; ½ by 5/16; 13/32 by 11/16; ⅝ by ¾; ¾ by 13/16, 15/16 by 1. Ship. wt. set, 2 lbs. 12 oz $2.25

84 A 7530—Individual End Wrenches. State size wanted.

Size, Inches	Ship. Wt.	Each	Size, Inches	Ship. Wt.	Each
¼ x 5/16	4 oz.	19c	⅝ x ¾	9 oz.	45c
⅜ x 7/16	4 oz.	25c	¾ x 15/16	12 oz.	55c
1/2 x 5/8	5 oz.	29c	25/32 x ⅞	12 oz.	59c
13/32 x 11/16	6 oz.	35c	15/16 x 1	14 oz.	69c



49c Set of 5

Lakeside Quality. Drop forged Carbon Steel with hardened and tempered jaws. Natural mottled finish. Sets fastened in handy metal clip.

84 A 7519—Set of Five. Sizes: 5/16-13/32, ⅜-7/16, ½-9/16, 13/32-11/16 and ⅝-¾ in. Ship. wt. per set, 1 lb. 8 oz. Set of 5 wrenches..... 49c

84 A 7520—Set of Six. Sizes: 5/16-13/32, ⅜-7/16, ½-9/16, 19/32-11/16, ⅝-¾, 23/32-⅞ in. Ship. wt. set, 2 lbs. Set of 6 wrenches..... 59c

98c Set of 5

Forged "S" Wrench Set. Includes 5 most popular sizes that will meet most of your needs around farm or home! Strong drop forged Carbon Steel wrenches—expertly hardened and tempered. Accurately milled jaws. Rust-resisting black finish. *Sizes included:* ⅜ by 7/16, ½ by 9/16, ⅝ by 11/16, ¾ by 13/16, ⅞ by 1 inch. Each plainly marked with size. Sets fastened in handy wire clip. Ship. weight per set, 3 lbs.

84 A 7516—Set of 5 "S" wrenches..... 98c

Add wrenches to your Credit Order—See Inside Back Cover

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ORDER YOUR TOOLS THIS EASY WAY:

Include them in your Credit Order—they add little or nothing to monthly payments. If your original credit order totals..$11.43
Monthly Payment is $2
Now add your special tools:
84A5243—BlowTorch.$3.59
84A109—Hacksaw... 1.69
84A7492—8-in.Wrench .79
Your total order is $17.50
$2.50 a month for a $17.50 order. See Inside Back Cover





mbination Blow Torch

ulti-flame rner develo- 2200° Fahr. **$12.25** 1-gal.

00 Value. Practical laborg outfit for plumbers and ters, etc. Ideal for produc- work. Place 1-gallon welded tank on ground—hold wind- burner separately. 12 ft. of prene hose. One-filling burns hrs. Slender type self- ing needle valve. Leak- d brass pump. Wt. 15 lbs. Month—see Back Cover.

A 5248—Cash....$12.25
A 5249—Flame spreader above. Ship. wt. 6 oz...50c

Eclipse Quality Torches

Pint Cap. **$1.98** Quart Cap. **$2.79**

(B) *$4.00 Value!* Solid bronze burner approved by U. S. Navy—develops 2000° F. Full polished Brass (not bronzed steel) heavy gauge tank—pressure tested. Lead coated steel bottom. Non-clog, square shouldered needle valve. Never-leak pump with automatic check valve—lockdown safety shut-off. Ship. wt. 4 lbs.

84 A 5242—Quart size...**$2.79**
84 A 5241—Pint size. As above but bronze fin. steel tank, standard burner. Wt. 3 lbs.....**$1.98**

Lakeside Quality Torch

- **A $5.50 Value!**
- **Large Solid Bronze Burner.**

$3.59 Quart

(C) Meets all U. S. Navy Specifications—plus automatic drip cup filler. Polished 20-gauge tested Brass tank with Brass bottom—no steel to rust! Full windshield. Slender type removable self-cleaning valve needle—can't enlarge orifice. Filler plug in funnel shaped bottom for easy refueling. Never-leak pump with automatic check valve—lockdown safety shut-off. Ship. wt. 4 lbs. 12 oz.

84 A 5243—Quart size..**$3.59**

Master Quality Torch

- **A $7.00 Value!**
- **Chrome plated, rustproof tank.**

$4.25 Quart

(D) Meets all U. S. Navy Specifications—plus automatic drip cup filler, plastic pistol grip handle. Solid bronze burner with slender type, replaceable, self-cleaning needle valve. Full windshield. 20-gauge, seamless, pressure-tested Brass tank with Brass bottom. Filler plug in bottom. Never-leak Brass pump—automatic check valve—lockdown safety shut-off. Ship. wt. 4 lbs. 12 oz.

84 A 5244—Quart size..**$4.25**

Same Quality
$10.00 in Most Hardware Stores

- **Burned 500 hours in actual test without cleaning!**
- **Steel lined generating vein—retards carbonization.**
- **Mechanics' style 2-pc. burner head—easy to clean.**

$5.45 QUART

2 burner blocks and valve needles included—1 for gasoline, 1 for kerosene. Many largest torch users insist on use of kerosene *only* for added safety—not as explosive as gasoline—gives hotter flame. Meets all U. S. Navy specifications—plus automatic drip cup filler, plastic pistol grip handle, chrome plated 1-qt. tank. Every Torch pressure tested, operated, adjusted at factory. Bronze burner—slender type removable, self-cleaning needle valve—won't enlarge orifice. 20-ga. seamless Brass tank, Brass bottom. Filler plug in funnel shaped bottom. Never-leak brass pump—automatic check valve and lockdown safety shut-off. Full windshield.

84 A 5245—Ship. wt. 5 lbs. **$5.45**

COMBINATION TIN SNIPS





ELECTRIC SOLDERING IRONS—All approved by Underwriters



Eclipse Quality.

Forged steel blades at treated and tempered hold edge, polished. Ship. s. 14 oz.; 1 lb. 8 oz.; 2 lbs.

84 A 2366—State length.
in. long. 2 -in. cut **39c**
in. long. 2¾ -in. cut **65c**
in. long. 3 -in. cut **75c**

Lakeside Quality.

Duck bill pattern. op forged steel—expert- tempered to hold a keen ge. Heat treated. Pol- ed jaws. Ship. wts. 12 z.; 1 lb. 8 oz.; 2 lbs.

84 A 2367—State length.
in. long. 2 -in. cut **72c**
in. long. 2½ -in. cut **89c**
in. long. 3 -in. cut **$1.10**

Tinners' Snips

(G) **Master Quality.** Drop forged, polished steel blades—inlaid with heat treated and tempered crucible steel. Blades hold keen cutting edge longer than ordinary steel—makes cutting easier, faster. Blades beveled for straight or scroll cutting. Jet Black nickel finish handles. Length 13½ in. Cut, 3¼ in. Ship. wt. 2 lbs. 4 oz.

84 A 2372
Each.....**$2.25**

Compound Lever Snips

Master Quality—cut up to 16-ga. metals—with ease! For aviation, air conditioning, sheet metal work. Compound action cuts with half the usual effort.

Chrome Vanadium Steel Blades—drop forged and tempered—polished.

Serrated Cutting Edge—Cuts any intricate design. Steel handles. Spring speeds cutting. Blades lock—carry in pocket. 1⅛-in. cut. 9½ in. long. Ship. wt. 1 lb.

84 A 2375—Right hand, cuts left circles....**$2.85**
84 A 2376—Left hand, cuts right circles....**$2.85**

Gasoline Torch

(J) **84 A 5234** — For soldering wires, small parts. 1600° F. flame. Self cleaning orifice. Flame-control valve. Seamless brass tank. Capacity ½ pint. Ship. wt. 1 lb. **95c**

Alcohol Torch

(K) **84 A 9294**—Blows itself—no pumping, no priming! Generates quickly. Nickelplated brass. Instructions. Wt. 10 oz.. **69c**

GOOD—Eclipse Quality

Guaranteed 1 Year. Fast heating nichrome wire element. Nickel plated. Hardwood handle. 6-ft. asbestos insulated heater type cord. For 110-120-volt A.C. or D.C. **69c** 84 A 5217

Set with 60-Watt Iron
84 A 5217—(Not shown.) *$1.00 Quality.* For small soldering jobs. Includes one ⅜-in. diam. copper tip; coil of wire solder; 2 sheets of sandpaper, scraper, soldering paste and stand. Wt. 1 lb...69c

100-Watt Iron Only
84 A 5198—*Pictured. $1.75 Value.* With ⅞-in. an½ ½-in. diameter removable copper tips. Shipping wt. 1 lb. 4 oz.....**98c**

BETTER—Lakeside Quality

Guaranteed 2 Years. Nichrome wire element—metal sheathed for longer life—extends into tip. Chrome plated. Baffle plates keep handle cool. 6-ft. 3000 cycle, asbestos insulated safety cord. For 110-120-volt A.C. or D.C. current. **$1.98** 84 A 5101

125-Watt Iron—*$2.75 Value*
84 A 5101—*Pictured.* Two copper tips—½-in. for light work; ⅞-in. for heavier work. Shipping weight 1 lb. 12 oz.....**$1.98**

175-Watt Iron—*$4.50 Value*
84 A 5102—Like above, but heating element mica insulated, wound on steel core. One 1½-in. copper tip. Wt. 2 lbs.**$3.49**

BEST—Master Quality

Guaranteed2Years. Heavy duty element—nichrome wire layer wound on iron core insulated with imported amber mica! Chrome plated. Push-in type tips—used only on expensive irons. Air-cooled baffle plates keep handle cool. 6-ft. 10,000 cycle asbestos insulated safety cord. Air-cooled stand. For 110–120 v. A.C. or D.C. **$3.25** 84 A 5104

125-Watt Iron—*$4.00 Value*
84 A 5104—⅜-in. copper tip for radio work. Wt. 1 lb. 12 oz..**$3.25**

200-Watt Iron—*$6.00 Value*
84 A 5105—*Pictured.* ⅝-in. copper tip for heavy work. Ship. wt. 2 lbs. 6 oz.....**$4.45**





4-inch Melting Ladle

1-piece malleable iron bowl and handle. Double lip for pouring from either side. 10½ in. handle. For melting solder, babbitt, lead, etc.

84 A 5206—Ship. wt. 1 lb. 8 oz.....**33c**

Sal Ammoniac

(M) For cleaning soldering coppers quickly! Ship. wts. 6 oz., 12 oz.

84 A 5212—¼-pound Cake.....**13c**
84 A 5216—½-pound Cake.....**25c**

Soldering Fluid

(N) Non-corrosive flux. For all metals except aluminum. 6-oz. Bottle.

84 A 5207—Ship. wt 1 lb. 8 oz.....**16c**

Soldering Salts

(P) non-acid flux—crystals. Add water to make soldering fluid. ½-pound Can.

84 A 5210—Ship. wt. 12 oz.....**19c**

Non-corrosive Soldering Paste

(P) First Quality materials.

84 A 5211—4 oz. Can. Ship. wt. 8 oz..**12c**
84 A 5213—1-lb. Can.
Shipping weight 1 lb. 8 oz.....**25c**

Forged Copper Soldering Irons

(R) **84 A 5208**—Drop forged. Pure refined electrolytic copper. Wood handle not included. **State weight wanted.**

Wt. Each, lbs.	½	1	1½	2	3
Shipping weight	10 oz.	1 lb. 4 oz.	1 lb. 12 oz.	2 lbs. 4 oz.	3 lbs. 4 oz.
Price Each	27c	39c	52c	79c	$1.19

Wood Handles

(S) Fit soldering irons above. With steel reinforcing ring. Ship. wt. each 4 oz.

84 A 5209—Each..3c; Six for.....**15c**

Soldering Supplies

(T) **No. 4 Babbitt.** For 100 to 200 R.P.M. bearings. Ship. wt. bar, 1 lb. 4 oz.

84 A 5186—1-pound Bar.....**11c**
Five 1-pound Bars.....**49c**

Lakeside Quality Babbitt. For bearings up to 1000 R.P.M. Wt. bar 1 lb. 4 oz.

84 A 5188—1-pound Bar.....**19c**
Five 1-pound Bars.....**89c**

(U) **Master Quality Solid Wire Solder.** Virgin metals—50% tin—50% lead. Used with flux. Diameter ⅛ in. Shipping weight 1 lb. 4 oz. per pound.

684 A 5192—Lb...49c; 5 lbs....**$2.35**

(V) **Master Quality Bar Solder.** Virgin metals—50% tin, 50% lead. A.S.T.M. approved, Class A solder. Shipping weight per bar, 1 lb. 4 oz.

84 A 5189—1-pound Bar.....**43c**
Five 1-pound Bars.....**$2.05**

Continuous Acid Core Wire Solder

Flux and solder combined. Made from virgin metals, no impure reclaimed metals are used in Wards solder. Clean to use—requires only heat. For all uses except radio, electrical work (for these use rosin core at right).

Eclipse Quality. Flows freely and holds well.

84 A 5196—About 4 ounces in metal can. Shipping weight 6 ounces.....**15c**
84 A 5193—1-lb. Spool. Shipping wt. 1 lb. 4 oz....**49c**

Master Quality. Finest you can buy—made of purest virgin metals. Guaranteed equal to Nationally Advertised solders selling at much higher prices. Surpasses specifications of Class "A" solder of Society for Testing Materials. Has high tensile strength.

84 A 5201—About 4 ounces in metal can. Shipping weight 6 ounces.....**19c**
84 A 5202—1-lb. Spool. Shipping wt. 1 lb. 4 oz...72c

Famous Kester Brand. Surpasses specif. of American Society for Testing Materials for Class "A" solder.

84 A 5191—1-lb. Spool. Shipping wt. 1 lb. 4 oz....**79c**

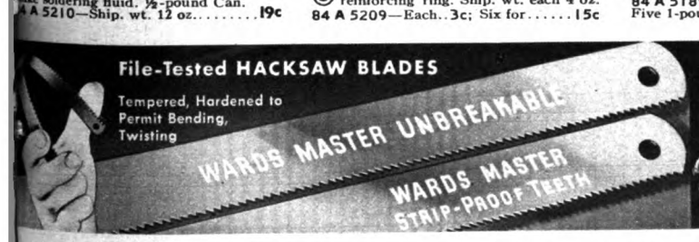
Continuous Rosin Core Wire Solder

Master Quality. For radio and electrical work. Only virgin metals used. Equals higher-priced nationally advertised solders. Surpasses specifications for class "A" solder of American Society for Testing Materials. Non-corrosive. Self-fluxing. Wts. 6 oz.; 1 lb. 4 oz.

84 A 5180—About 4-oz. metal can.....**19c**
84 A 5181—1-lb. spool.....**72c**

File-Tested HACKSAW BLADES

Tempered, Hardened to Permit Bending, Twisting



Identical Quality HACKSAWS up to $2.50 in Most Stores



Unbreakable Blade

Wards Master. So tough, so flexible—we guarantee it unbreakable (in the frames.) Tungsten Alloy Steel—.025 in. or .23-gauge thick. Special milled teeth—"clean as they cut"—no binding. Heat treated for uniform temper and flexibility. Cuts fast and easy. **State length wanted.**

6c Ea. 10-in. lots of 3

Strip-proof Teeth

Wards Master. Special Alloy Steel—hardened and heat treated—flexible, tough and break-resisting! .025 in. or .23-gauge thick. Uniform teeth specially milled to "clean as they cut"—no binding—*warranted* not to strip.

5c Ea. 10-in. lots of 3

State Length	84 A 141 18-Tooth		84 A 142 24-Tooth	
Length In.	Wt. Doz.	For 3	Per Doz.	For 3	Per Doz.
10	12 oz.	15c	55c	15c	55c
12	1 lb.	18c	65c	18c	65c

Length In.	Ship. Wt. Doz.	84 A 143 18-Tooth For 3	84 A 143 18-Tooth Per Doz.	84 A 144 24-Tooth For 3	84 A 144 24-Tooth Per Doz.
10	12 oz.	18c	65c	18c	65c
12	1 lb.	22c	79c	22c	79c

Buy on Time—See Back Cover

Lakeside Quality Hacksaw Blades

84 A 140—Tungsten steel — heat treated for flexibility. 18 teeth to in. Blade .025 in. thick. **State size.** 8-in. long. Ship. wt. per dozen. 8 oz.
3 for.....10c; Dozen....37c

10-in. long. Wt. doz. 12 oz. 3 for 13c; Doz. 48c
12-in. long. Wt. doz. 1 lb. 3 for 15c; Doz. 57c

3 1/2c 3 Ea. 8-inch Lots of 3

Master Quality High Speed Blades

Heat treated, tempered. Cut hard metals. 3/16-in. wide. 23-ga. 18 teeth to in. **State size.**

84 A 125—10-in. Pkg. of 2. Wt. 3 oz.....**39c**
12-in size. Pkg. of 2. Ship. wt. 4 oz.....**49c**

12-inch Heavy Power Blades

Master Quality. Milled teeth for power machine use. Heat treated Tungsten Steel. ⅝-in. wide. 21-ga.—.032-in. thick. 14 teeth to inch.

84 A 124—Ship. wt. 1 lb. Dozen.....**79c**

Eclipse Quality

84 A 101—*35c Value.* Pistol grip handle of plastic. Metal frame—reinforced back. Blade turns in 4 directions. For 8 to 12-in. blades. Cuts 2½ in. deep. 8-in. blade included. Ship. wt. 1 lb. 2 oz.....**25c**

(W) **Midget Hacksaw Frame.** Cadmium plated. Tempered spring steel—small nose. 9¼ in. long. 6-in. blade, .014 ga. 32 teeth to in.

84 A 106—Wt. 5 oz...**21c**
84 A 126—Extra Blades for Midget. Ship. wt. 4 oz. Dozen.....**45c**

Lakeside Hack Saws

84 A 105—Rust-resisting nickel plated polished steel frame and pistol grip handle. Strong reinforced back. Blade turns in 4 directions. Takes 8 to 12-inch blades. Cuts 2⅝-in. deep. With 10-inch tungsten steel blade.

Ship. wt. 2 lbs.....**95c**

95c Ea.

84 A 104—Like hacksaw above, but lighter weight frame. Shockproof pistol grip handle. With 10-inch tungsten steel blade. Takes 8 to 12 in. blades.

Ship. wt. 1 lb. 8 oz.....**59c**

Master Quality Hacksaw

- **Steel frame with reinforced back—extends through handle for extra strength.**

$1.69

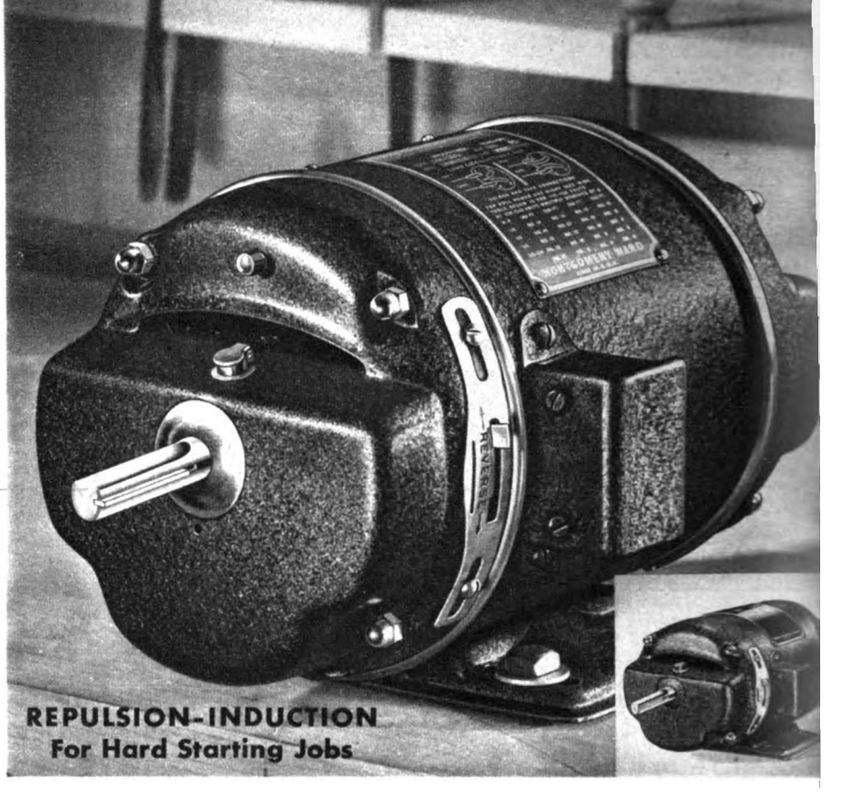
Rust-resisting nickel plated finish frame! Composition "D" handle grips are practically unbreakable—molded to fit your hand. Note the more substantial construction of Wards Master. It's same quality that others sell for $2.50! Blade can be turned in 4 directions—you can cut at any angle! Depth of cut 2⅞-inches. With one 10-inch tungsten steel blade.

Include this hacksaw in your credit order; adds little or nothing to your monthly payments. See Inside Back Cover for complete details.

84 A 109—Takes 8 to 12-inch blades. Shipping wt. 2 lbs. Each.$1.69

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Powerful Quiet-Running
ELECTRIC MOTORS
For Every Purpose



WHICH MOTOR SHALL I BUY?



SPLIT PHASE

For Easy-starting jobs, and where running load is not too heavy, as washing machines, bench grinders, light bench saws and circulating pumps.



CAPACITOR

For Medium-starting jobs, as paint sprayers, heavy woodworking tools. Starts up to ⅔ heavier loads on about ½ less current than Split Phase.



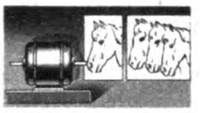
REPULSION-INDUCTION

For Hard-starting jobs—feed grinders, pumps, heavy production machines. Gives 4 to 5 times rated power for short periods. Wards finest motors.



TWO TYPES OF BEARINGS

Sleeve: Steel babbitted; same as used in heavy factory machines. Use with shaft in horizontal position only. **Ball: New Departure heavy duty for any shaft position.**



EXTRA CAPACITY

Ward Motors will start and carry for short periods emergency loads far in excess of rating—from 2 to 5 times **rated power, according to type, as specified.**



BALANCED OPERATION

Engineered and designed for correct weight distribution. Ward motors tested for *balance in motion*—assures reliable, efficient, quiet, plus-powered duty—durability.

More Ward Motor Features

Positive Lubrication — long, trouble-free, quiet service. Ball bearings double-sealed—never need greasing. Sleeve type get constant flow of *filtered* oil. Dustproof oil vent covers.

Rugged Low Bases—stamped steel—will not break— more strength with less weight.

Extra Protection for vital parts—enclosed construction keeps grit, chips out of motor. Ample ventilation through protected slots keeps motor within 40° C. of room heat.

Easy Reversing. Even on motors without handy reversing switch—simply interchange easy-to-get-at leads or move brushes.

Low Cost. Same quality sells under advertised name for up to 50% more than Wards price. Quality engineering, materials and production save you current, repair costs.

Extra Value from Your Motor

For best results select a Motor that is adequate. Consider three points: (1) Somewhat more power than absolutely needed is advisable—all industrial plants follow this rule. (2) Capacitors can be used for medium or easy starting jobs; Repulsion-Inductions for hard, medium or easy starting. (3) Double shafts, ball bearings, switches, make motors adaptable to more types of jobs.

Wards Time Payment Plan will enable you to buy a larger, better Motor plus needed accessories for monthly payments that are the same or only a trifle greater than for a lower priced motor alone. You can buy No. **483 A 9843** ½ H.P. DeLuxe Motor, Portable Base and 2 Extra Rails, 3-Step Pulley and 36 by ½-in. V-Belt, and an Arbor, for **$2.50 a Month.** See Inside Back Cover.



Gear Reduction

- A 840 Value.
- 2 Shafts; 2 Speeds.
- Two-Motor Utility.

$28.95 Cash — $4 a Month

Use for slow speed jobs—fruit graders, corn shellers, conveyor belts. One shaft runs at 350 R.P.M.; one at 1750 R.P.M. Safer, more convenient than reducing pulleys.

Heavy duty Capacitor type. Big overload capacity. Easily reversed. Sleeve bearings; run shaft horizontally only. Can be mounted on wall, ceiling. Gears permanently grease-lubricated. Shafts ⅝-in. diam.; extend 1½ in. Overall length, 14 in. ½ H.P. For 110-120 or 220-240 volt 60-cycle A. C. Not Thermotron equipped. Plug and 7½-ft. rubber covered cord. For Time Payment Terms see Inside Back Cover. Shipping weight 40 lbs. *Mailable.*

483 A 9874.....**$28.95**

Double Shaft R.I.

- Ball Bearings.
- On-Off Switch
- For Heavy Jobs.

$25.95 Cash — ½ H.P. — $4 a Month

Industrial type Repulsion-Induction motors used in many factories. Similar to those at right above, but with double shaft and New Departure *double grease-sealed* ball bearings. (1 H.P. has regular ball bearings; not double sealed). Use in any position. Rubber covered 7½-ft. cord, plug except on 1 H.P.

Keyed double shaft, ¾-in. diam. extends 2⅛ in. on ½ and ¾ H.P.; 3⅛ in. on 1 H.P. Key included. No Thermotron. Easily reversed—move brushes. Speed, 1750 R.P.M. For 110–220-V. 60-cycle A.C.

483 A 9813—½ H.P. Ship. wt. 61 lbs. *Mailable*...**$25.95**
483 A 9815—¾ H.P. Ship. wt. 65 lbs. *Mailable*...**$29.95**
183 A 9816—1 H.P. Ship. wt. 104 lbs. *Not Mailable*.....**$40.95**

Direct Current

- One or two Shafts.
- 115 or 32 Volt Models.
- Compound Wound.

$15.75 Cash — ½ H.P. — $2.50 a Month

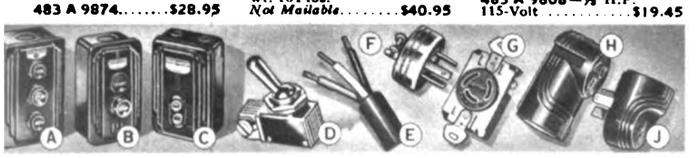
Speed, 1750 R.P.M. All except M283 A 9949 have rubber covered cord, plug. Shaft ½-in. diam.; projects 2 in. Not Thermotron equipped.

Single Shaft—Sleeve bearings for horizontal use only. No switch. Ship. wt., ½ H.P., 30 lbs. ea. *Mailable.*

483 A 9803—¼ H.P. 32-Volt.....**$15.75**
483 A 9804—¼ H.P. 115-Volt.....**$15.75**
M283 A 9949—½ H.P. 32-V. Shaft, ⅝-in. diam. Wt. 51 lbs. *Mailed from Dayton Factory*—about 10 days. **$28.95**

Double Shaft— New Departure Ball Bearings. Run shaft in any position. On-off switch. Ship. wt. 33 lbs. *Mailable.*

483 A 9807—½ H.P. 32-Volt.....**$19.45**
483 A 9808—½ H.P. 115-Volt.....**$19.45**



Cutler-Hammer Switches For Single Phase Motors

Ⓐ **Reversing.** Start, stop, reverse with push buttons. For motors up to ¾ H.P.—110–220-V., A.C. (except Rep. Ind.) Black. Instructions incl.
83 A 9735—Ship. wt. 2 lbs.....**$2.25**

Ⓑ **On-Off.** Push button remote control for up to 1 H.P. 110-V; 1½ H.P. 220-V., A.C. Black. Instructions.
83 A 9734—Ship. wt. 2 lbs.....**$1.35**

Ⓒ **Overload.** Automatically cuts out motor in danger of overload. Built-in control for starting, stopping.

H.P.	Voltage	Each
½ to 1	110	$2.25
1½ to 2 and 3	110 to 120	8.50
	120	20.00
½ to 1	210	$2.25
1½ to 2 and 3	210 to 240	6.50
5	240	8.50
		20.00

M283 A 9733 - State H.P., Voltage, Amps. *Overload Switches shipped Postpaid from Factory* in N. Y. or Milwaukee, whichever is nearer in about 7 days from receipt of your order.

1092 WARDS, INC.

Heavy Duty Outlets, Plugs, Cords

Underwriter Approved for motors, welders, etc. **20-Amp.** Any voltage to 250. For motors up to 2 H.P. on 110 volts; 3 H.P. on 220 volts.

Ⓖ **Receptacle.** For standard box and single plate. **83 A 9599**—Ship. wt. 6 oz.....**$1.40**
Ⓕ **Plug.** For above. **83 A 9598**—Wt. 5 oz.....1.10

50 Amp.—Motors to 5 H.P., 110-V; 10 H.P., 220-V.
Ⓗ **Receptacle.** Described, Wiring Section. **83 A 9586**—Ship. wt. 1 lb. Each.....**$1.59**
Ⓙ **Plug.** For above. Black bakelite. Angle type. **83 A 9597**—Ship. wt. 5 oz. Each.....**$1.99**
Ⓔ **Cord.** Tough rubber jacket. Use size 10 for not over 100 ft. on 1, 1½ or 2 H.P. 110-V, or 3 H.P. 220-V motors; size 8 for longer, or 3 H.P. 110-V or 5 H.P. 220-V. **State Length Wanted.**

Article No.	Wires	Wt. 25 Ft.	Per Ft.
683 A 9072	3 No. 10	10 lbs.	20c
M283 A 9074*	3 No. 8	20 lbs.	35c
683 A 9071	2 No. 10	8 lbs.	14c
M283 A 9073*	2 No. 8	15 lbs.	29c

*No. 8 Mailed from Factory at Chicago, Ill. or Trenton, N. J. in about 7 extra days.

Ⓓ **On-Off Switch** for motors up to ½ H.P. Shank fits ½-in. hole.
83 A 9946—Ship. wt. 2 oz. Each.....30c

Greatest Overload Capacity—Longest, Steadiest Service

DeLuxe ¼ H.P. **$14.95** Cash — $2.50 A Month

- Develop from 4 to 5 Times Rated Power for Starting, Emergencies.
- For Water Pumps, Compressors, All Other Hard Starting Machines.
- Bearings Get Constant Flow of Filtered Oil from Super Oil Wells.
- Built-in Thermotron Provides Positive Protection from Burn-Outs.

Standard ¼ H.P. **$12.95** Cash — $2 A Month

Quality and performance of motors costing up to 30% more elsewhere. Meet all A.I.E.E., N.E.M.A. and power company requirements. Compact, modern design. For all *hard-starting* machines in home, farm or shop. Built to withstand frequent starting and stopping, constant running, heavy production work. Single shafts keyed for slotted pulleys; key included. Oversize steel shell, babbitt-lined sleeve bearings with positive oiling grooves. Fan and air vents keep temperature well below safe maximum. (...venient reversing lever. Cast iron frame. Low slotted ... of heavy stamped steel will not break; easy to mount ... brushes for low starting voltage. The ¼ and ⅓ H.P. ... brush-lifting type suitable for refrigerators. For 110- ... or 220-240 volt, 60-cycle A.C. circuit. Speed, 1750 R.P. ... No cord or plug. Only *½ H. P. and smaller are Mail* ... State Article Number and H.P. wanted.

DeLuxe Model—With Thermotron

P183 A 9820—As described above, *with* automatic cut-out Thermotron—manual re-set type. **State H.P.**

H.P.	Shaft Diam.	Shaft Length	Ship. Wt.	Cash Price
⅓	⅝ In.	2 In.	41 Lbs.	$14.95
½	⅝ In.	2 In.	44 Lbs.	18.95
¾	⅝ In.	2½ In.	55 Lbs.	23.95
1	⅝ In.	2½ In.	90 Lbs.	32.95
¾	¾ In.	2½ In.	110 Lbs.	39.95

Standard Model—Without Thermotron

183 A 9819—As described above but without Ther... tron. (Pictured in small illustration above.) **State H.P.**

H.P.	Shaft Diam.	Shaft Length	Ship. Wt.	Cash Price
⅓	⅝ In.	2 In.	38 Lbs.	$12.95
½	⅝ In.	2 In.	41 Lbs.	15.95
¾	⅝ In.	2½ In.	52 Lbs.	19.95
1	⅝ In.	2½ In.	86 Lbs.	26.95
¾	¾ In.	2½ In.	108 Lbs.	34.95

Large Size Repulsion-Induction Motors With Ring Oiling—Industrial Type

Similar to motors above, but without Thermotron or reversing lever. Have Ring Oiling System instead of Super Oil Wells. Standard Commercial motors, as used in modern industrial plants. Somewhat different in appearance from above motors. Standard N.E.M.A. dimensions. Speed, 1750 R.P.M. For 110 or 220 volt 60-cycle A.C.

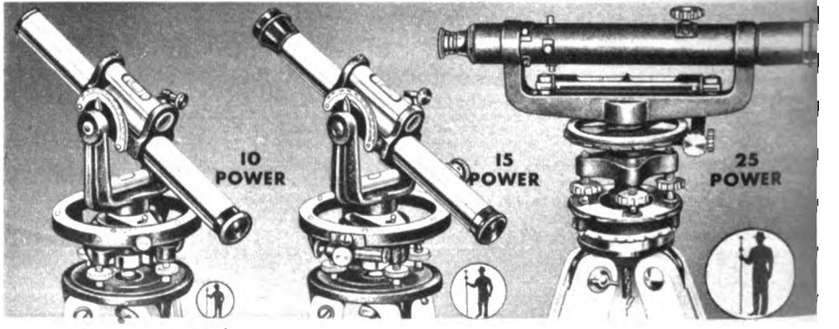
Important: Before ordering 2, 3 or 5 H.P. ask power company if line and transformer will handle size you need.

For 3-Phase Motors write Wards Engineering Service Department for information and prices.

183 A 9821—Be sure to State H.P. Wanted:

H.P.	Shaft Diam.	Shaft Projects	Ship. Wt.	Cash Price
1½	1 In.	3⅛ In.	138 Lbs.	$45.50
2★	1 In.	3⅛ In.	165 Lbs.	59.50
3★	1 In.	3⅛ In.	192 Lbs.	75.00
5★	1⅛ In.	3⅜ In.	240 Lbs.	104.50

★See notes at left on 2, 3 or 5 H.P. or 3-Phase Motors



SAVE UP TO 50% ON GUARANTEED ACCURATE SURVEYING INSTRUMENTS

Wards Simplified Utility Level Transits

$23.75 Cash — $3.50 A Month — **$38.50** Cash — $5 A Month

Free from complicated adjustments. Complete with instructions. May be used by inexperienced person. No knowledge of higher mathematics needed. Make construction, farming, gardening accurate. Both have these features:

Ten-inch telescope; locks at any angle. Fixed cross hairs for accurate sighting. Precision ground achromatic lens. Adjustable eye pieces for focusing. 2½-in. control level (astride telescope) accurately ground and graduated. 2½-in. arc graduated in degrees with fixed pointer for vertical readings. 4½-in. circle graduated in degrees (four 90° quadrants) with accurate vernier adjustments to 10 minutes for horizontal readings. Convenient indicator for laying off angles. Level control helps prevent errors. Base, standard, rustproof alloy.

Low Priced, but accurate. For determining slopes for tiling, contour farming, landscaping, truck gardening, road construction, fencing, etc. Achromatic lens magnifies 10 times. Precision clamp and tangent adjustment for finer control of vertical movement. Tripod, plumb bob and wood carrying case. Ship. wt. 16 lbs. *Mailable.*

384 A 1954—Cash....**$23.75**

$3.00 Down, $3.50 a Month. See Inside Back Cover for complete details.

More Accurate Readings at greater distances. For aligning foundation piers, running boundaries, construction work. Magnifies 15 times. Has 50% larger field than model at left—target easier to find. Rack and pinion focusing adjustments. Precision clamp and tangent for finer control of both vertical and horizontal movements. Tripod, plum bob and weatherproof wood case. Ship. wt. 17 lbs. *Mailable.*

384 A 1957—Cash Price.....**$38.50**

$4 Down, $5 a Month. See Inside Back Cover. You can include Compass listed below without increasing the monthly payments.

Three-Inch Jeweled Compass



Pictured at left. Marked N, S, E, W; also in degrees. Fits 384 A 1954 and 384 A 1957 level transits. Brass case.

84 A 1955—Ship. wt. 12 oz.....**$3.60**

Leveling Rod With Metal Target

Three-piece hardwood extension leveling rod 8 ft. 9 in. (Not shown.) Use with any of above. Grad. feet and inches.

84 A 1959—Ship. wt. 2 lbs. 12 oz.....**$1.45**

Builders' Dumpy Level

$69.50 Cash — $7 A Month

Precision Built to specifications of the U. S. Department of Agriculture (Soil Conservation Service.) Recommended for irrigation, drainage and construction work. Magnifies 2... times. Large field of vision.

Telescope. Twelve inches long. Erecting. Dustproof achromatic lens. Eye piece adjustable for focusing cross wires. 1¼-inch objective, with rack and pinion for focusing.

Spirit Level. 5 in. long. Ground and accurately graduated.

Level Bar. Reinforced cast bronze with rigid telescope supports.

Four-Inch Circle. Machine divided in degrees; engraved in quadrants; corrugated edge for setting to zero. Clamp, tangent screw for finer adjustments. Vernier reading to 5 *minutes.*

Center. Bell metal; fitted, tested. Clamp screw; 4 leveling screws—cups attached. Base plate with trivet points.

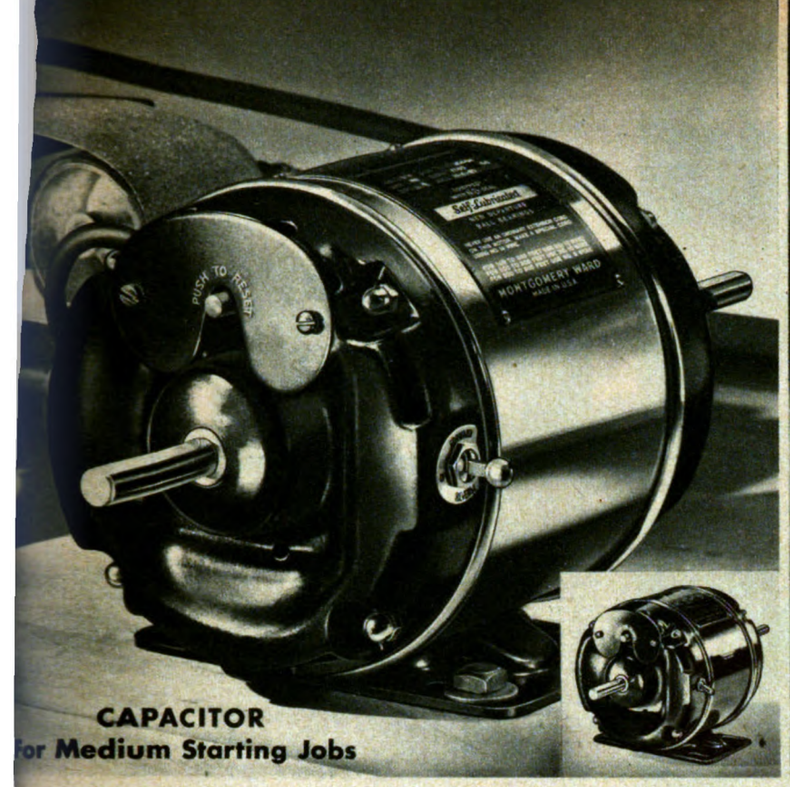
Finish. Black enamel and bakelite lacquer. Complete with plumb bob and round-leg tripod. In finished hardwood case.

Shipping weight 32 lbs. *Mailable.*

384 A 1963—Cash Price....**$69.50**

$6 Down, $7 a Month. See Inside Back Cover for Details of Wards Convenient Time Payment Plan. You can include Rod at left without increasing your monthly payment.

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CAPACITOR
For Medium Starting Jobs



SPLIT PHASE
For Easy Starting Jobs

More Capacity—Less Current . . . Built-In Condensers

De Luxe ¼ H.P.

$13.95 Cash

$2 A Month

- Takes Heavier Load, Attains Speed Faster Than Split Phase.
- For Heavy Woodworking Tools, Other Medium Starting Jobs.
- Permanently Lubricated New Departure Ball Bearings.
- Built-in Thermotron for Positive Protection from Burn-Out.

Standard ¼ H.P.

$12.65 Cash

$2 A Month

features of Split Phase motors at right, *plus* built- condenser—reduces starting current about ⅓; han- s greater starting and emergency overloads, heavier ning loads. Thermotron with automatic cut-off, nual re-set—safest, most dependable type for gen- l use. Conveniently located on-off switches give- y, sure control. Unbreakable steel bases. Engi- ered, manufactured, tested to fine tolerances by one of world's largest manufacturers of electric motors—backed by America's leading industrial research laboratory. Double shaft, ½-in. diam., projects 2 in. at each end. Speed, 1750 R.P.M., (except No. P483A9844). For 110–120 volt, 60-cycle A.C. Complete with 7½-ft. rubber covered cord and unbreakable plug. See Inside Back Cover for complete details of Wards convenient Time Payment Plan.

Wards DeLuxe Capacitor Motors—None Finer Made

ot just Split Phase Motors with condensers added, but basically engineered d Capacitor type. Have about ⅔ greater power for starting and emergencies, ng ½ less current than Split Phase motors. Ideal for varied requirements of rkshop, farm utility needs, as well as fixed installations on medium-hard start- machines. Also for easy starting machines where turned on and off fre- ently or where service is extremely heavy. Single combination switch for on, , reverse. Compact modern design. *Mailable.*

83 A 9875—¼ H.P. Length 12¾ in. Ship. wt. 30 lbs. $13.95
83 A 9843—½ H.P. Length 13¾ in. Ship. wt. 39 lbs. 15.95
483 A 9842—½ H.P. Length 14½ in. Ship. wt. 42 lbs. 16.95

High Speed, for Machines Running over 5000 R.P.M.

eLuxe quality, same as motors above, but with shaft speed of 3450 R.P.M. or routers, shapers, other machines running over 5000 R.P.M., only.

483 A 9844—½ H.P. 13¾ in. long. Ship. wt. 37 lbs. *Mailable* $17.95

Extra Heavy Duty Capacitor Motors

newhat different in appearance from motors above. Shaft ¾ in. diameter, tends 2¼ in. For 110 or 220 volt 60-cycle A.C. *Mailable.*

83 A 9851—¾ H.P. Length 16¼ in. Ship. wt. 61 lbs. $32.00
83 A 9852—1 H.P. Length 16¾ in. Ship. wt. 66 lbs. 39.95

Standard Model

Shown in small picture. Handles about 25% heavier loads for starting, emergencies, on about ⅓ less current than Split Phase. Good motors for workshop power tools, other medium starting machines. Second in Capacitor type only to Wards DeLuxe. On-off switch. *Mailable.*

483 A 9845—¼ H.P. Overall length 12 in. Shipping weight 28 lbs. **$12.65**

483 A 9846—½ H.P. Overall length 13¼ in. Shipping weight 35 lbs. **$13.75**

"P" Before Article Number means shipped from Pittsburgh or Mail Order House, whichever is nearer.

Good Quality at Low Price—Dependable on Right Type Jobs

Double Shaft

$7.75 ¼ H.P.

Sleeve Bearing

- Develop 2 to 3 Times Rated Power for Starting Loads.
- For Washing Machines, All Other Easy Starting Machines.
- Choice of Sleeve Bearing or Ball Bearing Models.
- Thermotron Burn-out Protection on Double Shaft Models.

Single Shaft

$5.45 ¼ H.P.

Without Cord

Double Shaft Fully Equipped Models

One of the finest Split Phase Motors made. Thermotron burn-out protection—automatically shuts off motor on excessive overload; push button to re-set. Large air vents placed to minimize danger of grit reaching vital motor parts. Speed, 1750 R.P.M. For 110–120 volt, 60-cycle A.C. On-off switch. Easily reversed by changing leads. Double shaft ½-in. diam. extends 2 in. at each end. Complete with unbreakable plug and 7½-ft. rubber covered cord. Unbreakable slotted steel base gives strength with less weight,—easy to mount. *All are Mailable.*

With Babbitted Steel Shell Sleeve Bearings

To be used with shaft in horizontal position only.

P483 A 9854—¼ H.P. Overall length 12 in. Ship. wt. 27 lbs. $7.75
P483 A 9855—½ H.P. Overall length 13¼ in. Ship. wt. 32 lbs. 8.95

With New Departure Ball Bearings

May be used with shaft in any position—vertically or horizontally.

P483 A 9858—¼ H.P. Overall length 12 in. Ship. wt. 27 lbs. $9.25
P483 A 9861—½ H.P. Overall length 13¼ in. Ship. wt. 34 lbs. 9.95

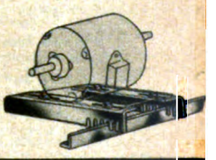
Low Priced Single Shaft

Shown in small picture. Will give long, dependable service in suitable installation. A satisfactory motor, equal to those furnished as original equipment on many washing machines and other appliances. *Not* Thermotron equipped. Unbreakable steel base. Shaft ½-in. diameter, projects 2 in. For 110–120 volt, 60-cycle A.C. circuit, 1750 R.P.M. Steel shell babbitted bearings. Use with shaft in horizontal position only. ¼ H.P. Ship. wt. 24 lbs.

483 A 9796—Without cord $5.45
483 A 9793—With 7½-ft. rubber covered cord and unbreakable rubber plug $5.95

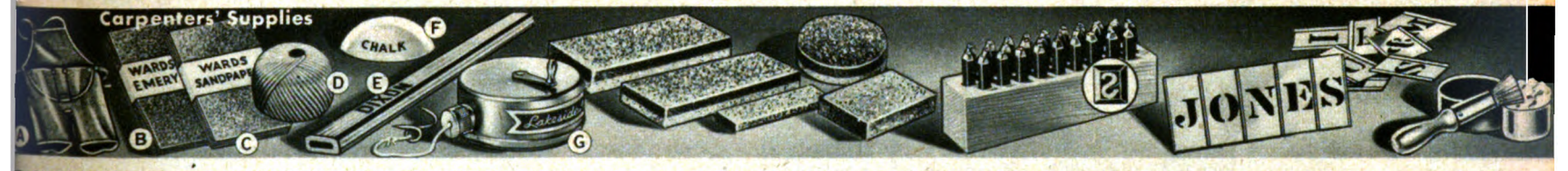
Adjustable Base Increases Motor's Usefulness

54c



Shift motor from job to job, quickly, easily. Ideal for farm, small shop or home. Buy one complete outfit, and extra rail for each additional machine. Due to slight angle in operating position motor weight gives belt tension. With this outfit and a Ward Motor of ½ or ⅓ H.P. almost any light or medium utility job can be quickly powered. Base and rails made of sturdy stamped steel. For motors of ½ H.P. or less.

83 A 9827—Complete Outfit; base and 1 rail. Ship. wt. 1 lb. 6 oz. 54c
83 A 9828—**Extra Bench Rails.** Ship. wt. 6 oz. Each 18c



Ⓐ **84 A 650—Brown 7-oz. Duck Apron.** Tie straps, nail, rule pockets. Stress points veted. 32 by 27 in. Shipping eight 10 oz. 65c

Ⓒ **84 A 2401—Sandpaper.** Size 8¾ by 10½ in. **State grit, quantity wanted.**

Grit	Ship. Wt. 24 Sheets	24 Sheets	120 Sheets
00 Fine	1 lb.	12c	55c
0 Fine	1 lb. 4 oz.	13c	59c
½ Med.	1 lb. 8 oz.	15c	70c
1 Med.	1 lb. 12 oz.	17c	79c
1½ Coarse	2 lbs.	19c	88c
2 Coarse	2 lbs. 4 oz.	22c	$1.00

4 A 2404—20 sheet pkg.; as- orted grit. Size 4½ by 5 inches. hip. wt. 4 oz. per package. kg. ....6c; 3 Pkgs. for 16c

Ⓑ **84 A 2406—Emery Cloth.** 6-sheet package; assorted grits. 4½ by 5 in. Ship. wt. per pkg. 4 oz. Per package ....6c; 3 packages for 16c
84 A 2403—Sheets 9 by 11 in. Grits; No. 00 fine; No. 0, med.; No. 1, coarse. **State grit wanted.** Ship. wt. 3 oz. Per sheet ..4c; 3 sheets for .. 11c

Ⓓ **84 A 1792—Chalk Line.** 100-ft. ball. Heavy whitecotton. Ship. wt. 4 oz. Each 7c; 6 balls 39c
84 A 1799—Mason's Line. Yellow cotton. 100-ft. hank. Ship. wt. 4 oz. Each ..9c; 6 for 48c

Ⓕ **84 A 1796—Blue Chalk.** 3 pieces in box. Ship. wt. box 6 oz. Per box 4c; 4 boxes .. 15c

Ⓔ **84 A 1797—Dixon Carpenter Pencil.** 7 in. long. Ship. wt. 2 oz. ea. **State Choice,** soft or hard. Each ..... 4c; Per dozen 45c

Ⓖ **84 A 1798—Automatic Chalk Line.** $1 value. Saves time—cleaner—no hand chalking. Line and chalk inside metal case. Pin hook on line end for fastening. Ship. wt. 10 oz. Each 69c
84A1788—Refill. Blue chalk powder. 4 oz. Ea. 7c

Master Quality Bench Stones

Vitrified silicon carbide. Combination coarse and fine grit—cuts tool steel.

84 A 2470—5x2x¾-in. Ship. wt. 12 oz. .69c
84 A 2471—6x2x1-in. Ship. wt. 1 lb. 89c
84 A 2472—7x2x1-in. Wt. 1 lb. 4 oz. ..$1.19

84 A 2467—Lakeside Quality Bench Stone 6x2x¾-in. thick. Coarse and fine grit. Corundum stone. Ship. wt. 12 oz. 25c

84 A 2461—Pocket Stone of silicon carbide 3½x¾x¼-in. thick. Fine grit for fine edge tools. Ship. wt. 2 oz. 10c

84 A 2469—Master Quality Axe Stone of Vitrified Silicon Carbide. Coarse—fine grit. 3-in. diam. ⅝-in. thick. Ship. wt. 9 oz. ...43c

84 A 2463—Eclipse Quality Axe Sharpening Stone. Medium grain, natural hard stone. SIZE: 3x2x⅝-in. Ship. wt. 7 oz. 10c

Tempered Tool Steel Marking Dies

Used for stamping numbers, names on soft metals, (steel that isn't tempered), wood, leather, etc. Rust-resisting. Clear, sharp characters. In handy wood box with wood cover. For complete range of letters and numerals order both 28-piece and 9-piece sets. **State size and article number wanted.** Add to your Time Payment order. See Inside Back Cover.

State Size wanted	84 A 2722—28-Piece Set: Includes Alphabet, Period, &		
Size	⅛ in.	3/16 in.	¼ in.
Ship. wt	1 lb. 10 oz.	2 lbs. 8 oz.	3 lbs. 8 oz.
Per Set	$1.65	$2.19	$2.85

State Size wanted	84A2723—9-Piece Set: Figures, 0 to 9 (9, 6 Interchange)		
Size	⅛ in.	3/16 in.	¼ in.
Ship. wt	12 oz.	1 lb.	1 lb. 6 oz.
Per Set	59c	75c	89c

78-Pc. Brass Stencil Set

Marking equipment is good "insurance." Put your name on your property—machinery, mail boxes, egg crates, tarps. 48 letters, 20 figures, 10 characters, interlocking type. Complete with brush, ink. (Size below is character height.)

84 A 2728—State size.
1-in. Wt. 1 lb. 2 oz. $1.65
1½-in. Wt. 1 lb. 6 oz. 1.98
2-in. Ship. wt. 2 lbs. 3.49

Stencil Supplies

84 A 2730—Black Ink. 6 oz. cake, with sponge and pan. Ship. wt. 14 oz. ...39c
84 A 2732—Brush. Ship. wt. 4 oz. 17c



Wards Finest Vise

For either master carpenter or home craftsman who wants the best. The 10-in. cast iron front and back jaws have smoothly ground faces. Vise opens to 10 inches. Adjustable, locking bench stop. Cold rolled steel. ⅞-inches diameter, screw, and guides. Removable hardwood handle. Screws included. Enameled finish. Ship. weight 20 lbs.

484 A 6834 ..$4.35

Wood Face Vise

Cast iron front jaw 10 in. wide—hardwood face. Bench serves as other face. Opens 10 in. Cold rolled ⅞-in. diam. steel screw and guides. Adjustable bench stop. Removable hardwood handle. Enamel finish. With screws for mounting. Shipping weight 17 lbs.

484 A 6830
Each **$2.65**

Automatic Locking Vise

Clamps to anything from ¾ to 2 in. thick. Instant locking device. Strong steel rods. Malleable iron 1½ by 5½-in. jaws grip tight. Opens to 3⅜ in. Rust-resisting black japanned finish. Ship. wt. 6 lbs.

584A6833
Each **$1.90**

Bargain Vise

Malleable iron jaws 6⅜ in. wide —2½ in. deep. Opens 4½ in. Easy operating acme-thread screw; two ½-in. diam. steel guide rods. Steel slide handle. Green enamel finish. Screws to workbench (screws not included). Shipping weight 6 pounds.

584 A 6832.$1.29

Bench Screws

Ⓗ Make your own bench vise. Threads of screw are machine-cut from cold rolled steel bar. Length about 16 inches. Hardwood handle **State diam. wanted.**

584 A 6898 -

Diam. In.	Ship. Wt.	Price Each
1	5 lbs.	85c
1¼	7½ lbs	1.25

Clamp Fixtures

Ⓙ For ¾-in. threaded pipe. End fixture adj. by screw. Faces 1¾ by 1⅜ in. Semi-steel. No pipe. Ship. wt. 3 lbs. 14 oz.

84 A 6907. $1.10

Ⓚ Attaches to 1⅜ by 2½-in. wood bar. Sliding head 1¾ in. sq. ⅜-in. steel screw. Bar not included. Ship. wt. 4 lbs. 4 oz.

84 A 6905 -
Each ..... **.79c**

Bar Clamps

Ⓛ T-shape notched steel bar 1½ by ½ by 3/16 in. Stiffer than flat bar. Malleable iron sliding fixtures with 1¾ by 1⅜-in surfaces. ⅜-in. steel screw. Shipping wt. each, 9, 10 lbs.

484 A 6910—State length wanted.

Length	3 ft.	4 ft.
Each	$2.15	$2.39
Pair	4.15	4.60

Malleable Iron Clamp

Ⓜ Cold rolled steel screw, machine-cut threads. Swivel head, ball joint. Designed for maximum strength and service. Wts. below are shipping weights.

84 A 6900—State size opening when ordering.

Opens In.	Depth In.	Wt. Ea. Lbs.	Price Each	Price Pair
4	2	2¼	43c	80c
6	2½	3	60c	$1.15
8	3	4	98c	1.90
10	3¾	7	$1.49	2.80

Nickel Plated Clamps

Ⓝ Guaranteed Unbreakable. Malleable iron. Extra deep throat, yet extra-strong. Cold rolled steel screw. Sliding bar handle.

84 A 6904—State opening.

Opens In.	Depth In.	Wt. Ea. Lbs. Oz.	Price Each	3 For
1	1⅛	3	9c	25c
2	1⅝	4	13c	36c
2½	2½	9	23c	65c
3	2	12	26c	75c
4	3	1 9	47c	$1.35

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WARDS SUPREME QUALITY

STEEL TRUSS LADDERS

APPROVED BY UNDERWRITERS



Save Up to $5—Steel Truss Extension Ladders

Ladders of comparable quality are priced as much as $5 more elsewhere.

Finest seasoned fir uprights. Grain runs straight to provide greatest strength. Uprights flared at bottom for extra rigidity.

Steel trussed rungs—like a truss bridge—well known for strength. Every rung is strong, seasoned, second-growth hickory, reinforced with a steel truss under the rung, bolted clear through the side braces—the strongest construction known! (Wards Bureau of Standards pressure-tested the rungs to hold 1500 pounds. When greater weight was applied, the wood broke—*but the steel truss still held!*

Malleable iron hooks lock automatically for greater safety. Four steel guides, two with rollers for easy operation. All metal parts rust-resisting. Actual usable length approximately 3 feet less than lengths given because of overlapping sections. *Not Malleable.* **Shipped from Stock** in our Mail Order House except 60-ft. size.

Push-Up Type Ladders

Without rope and pulley attachment.

Article No.	Lgth.	Sections	Ship. Wt.	Price
186 A 2213	20 ft.	10 ft. ea.	56 lbs.	$9.39
186 A 2214	24 ft.	12 ft. ea.	66 lbs.	11.39
186 A 2215	28 ft.	14 ft. ea.	76 lbs.	13.25
186 A 2216	32 ft.	16 ft. ea.	86 lbs.	15.15
186 A 2217	36 ft.	18 ft. ea.	96 lbs.	16.98
186 A 2219	40 ft.	20 ft. ea.	106 lbs.	18.98
186 A 4570	44 ft.	22 ft. ea.	116 lbs.	20.89

Rope and Pulley-Type Ladders

Article No.	Lgth.	Sections	Ship. Wt.	Price
186 A 2158	20 ft.	10 ft. ea.	58 lbs.	$10.29
186 A 2159	24 ft.	12 ft. ea.	68 lbs.	12.29
186 A 2160	28 ft.	14 ft. ea.	78 lbs.	14.15
186 A 2161	32 ft.	16 ft. ea.	88 lbs.	16.15
186 A 2162	36 ft.	18 ft. ea.	99 lbs.	17.98
186 A 2163	40 ft.	20 ft. ea.	109 lbs.	19.98
186 A 2157	44 ft.	22 ft. ea.	120 lbs.	21.89



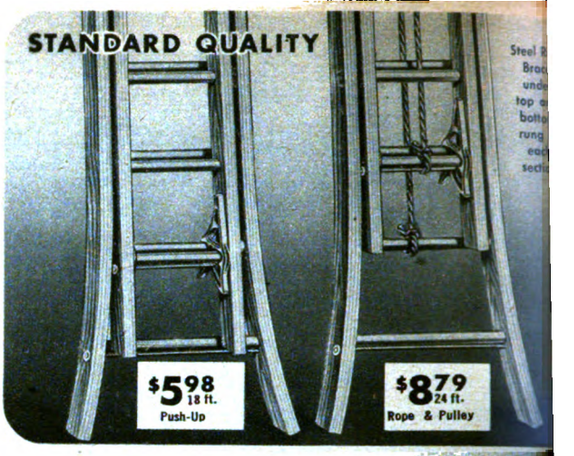
An unbraced ladder step is like a plank across a creek. It breaks because it bends.

A steel trussed ladder step is like a steel truss bridge —well known for strength.

3-Section Ladder

60-ft. Rope and Pulley type. Heavier construction. Each section 20-ft. but usable length only 52 feet because of overlapping. **Shipped from Factory** near St. Paul, Minnesota in 5 extra days. Ship. wt. 165 lbs.

286 A 4571.....**$32.95**



Standard Quality Extension and Single Sec

New—Steel Rod Brace under bottom and top rung of each section—keep uprights from spreading. Second-growth seasoned hickory rungs—each tightly mortised into side rails. Seasoned fir uprights flared at bottom for extra rigidity. **Strong, easy-working malleable iron hooks** and heavy steel guide straps—2 with rollers. All metal parts rust-resisting. Usable length on extension ladders about 3 feet less than length given because of overlapping. **Shipped promptly from Stock.** *Not Malleable.*

Push-Up-Type

Article Number	Length Ft.
186 A 4550	18
186 A 4551	20
186 A 4552	22
186 A 4553	24
186 A 4554	26
186 A 4555	28
186 A 4556	32
186 A 4557	36
186 A 4558	40

Single-Section Ladders

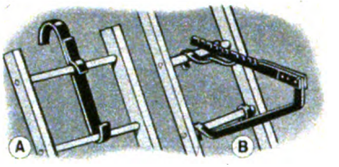
Flared at bottom like an extension ladder but have no guide irons. Can't be used as bottom of extension ladder.

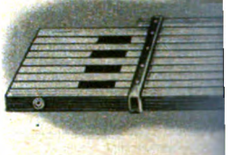
Article No.	Length	Ship. Wt.	Price
186 A 4559	12 ft.	28 lbs.	$3.29
186 A 4560	16 ft.	37 lbs.	4.39
186 A 4561	20 ft.	47 lbs.	5.49

Rope and Pulley

186 A 4562	24
186 A 4563	28
186 A 4565	32
186 A 4567	36
186 A 4568	40
186 A 4569	44

Freight Rates Are Low—See Pages in Back of Book or Consult Your Lo





Ladder Hooks

Ⓐ **Easy to put into position.** Quickly attached—will not work loose or damage roof. Adjustable, 1-in. steel, 5/16 in. thick.
86 A 4109—Ship. wt. 3 lbs. 8 oz....**49¢**

Ⓑ **Ladder Brackets.** Easy to put into position—adjustable to any ladder pitch. Fits front or back of ladder. 4 hooks grip rungs. 1½ by 5/16-in. steel supports any load a ladder will carry. Holds planks up to 18 in. wide.
486 A 4110—Pair. Ship. wt. 22 lbs.**$2.39**

Telescope-Type Extension

Finest selected seasoned wo... any length up to maximum. S... ly fastened by bolts at each ... warp or pull apart when in... Bolt construction permits s... tions with little trouble. 11 in... enameled hardware. *Not Mail...*

186 A 4111—6-ft. size. Exte... from 6¼ to 10½ ft. Ship. wt. 2...

186 A 4112—8-ft. size. Exte... from 8¼ to 13½ ft. Ship. wt. 3...

BUY SUPPLIES NOW FOR REPAIRING AND PAINTING

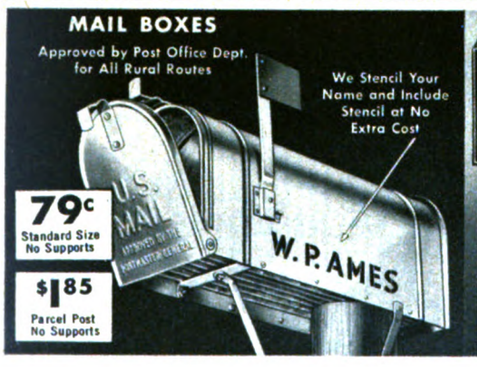
Include these items on your Time Payment Plan for as little as $2.50 Down and $3 a month. See Inside Back cover for details.

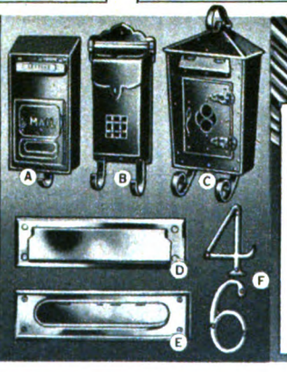
186 A 2214—Supreme Quality Ladder.... $11.39
186 A 4112—Extension Plank..... 4.98
86 A 4109—Ladder Hook..... .49
486 A 4110—Ladder Brackets..... 2.39
$19.25

For a complete selection of fine quality house paints see Pages 1021-1023

MAIL BOXES

Approved by Post Office Dept. for All Rural Routes



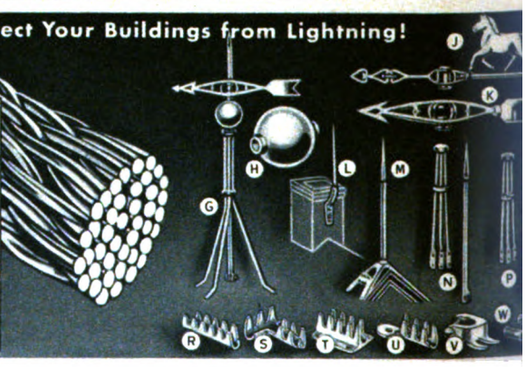


Protect Your Buildings from Lightning!



How to Order Lightning Rod

Measure carefully. Allow extra 10 ft. for each ground. Use at least 2 grounds—3 or more for gabled, "T" or "L"-shaped buildings. Use uprights every 20 ft. and 1 on each chimney. For more information write for Ward-help No. 84-342.



Weatherproofed Mail Boxes

Keep your letters dry in all kinds of weather! Wards Mail Boxes are sturdy—made to give years of service. Doors are waterproof, fit tightly, are strongly hinged. Strong catch. Corrugated bottom keeps mail clean, makes it easy to pick up. Heavy galvanized steel with aluminum finish. Rustproofed. Large flag indicator on side. Approved by Post Office Dept. for all rural routes.

Wards will stencil your name and route number on both sides of box without charge, and send you the stencil. *Print your name plainly.*

Shipped from Stock in Albany, Baltimore, or Pittsburgh. Send order to nearest House.

Approved Standard Size Mail Box

Holds letters and small packages. Inside dimensions 18½ in. long, 6¼ in. wide, 7½ in. high.

Without Supports.
P684 A 4743—Ship. wt. 8 lbs. *Mailable*.....**79c**

With Supports, as pictured. Rustproof cadmium plated braces, ready to mount on post. Bolts and screws included.
P684 A 4739—Ship. wt. 9 lbs. *Mailable*.....**95c**

Approved Large Size Parcel Post Box

Recommended for rural routes because it holds extra large packages. Inside dimensions 23¾ in. long, 11 in. wide, 13⅜ in. high.

Without Supports.
P684 A 4744—Ship. wt. 26 lbs. *Mailable*...**$1.85**

With Supports. Cadmium plated steel braces. Bolts and screws included.

P684 A 4740—Ship. wt. 27 lbs. *Mailable*.....**$2.00**

Mail Boxes—Letter Box Plates

Ⓐ **Low Priced.** Sheet steel with rust-resisting Black japanned finish. Weatherproof. Automatic spring lock. Newspaper clip and name slot. With screws and key. Overall dimensions 11 in. by 5 in. by 2½ in.
84 A 4731—Shipping weight 1 lb. 8 oz.....**35c**

Ⓑ **Colonial Design.** Cast iron; sheet steel back. Rust-resisting Black japanned finish. Loop for padlock. With screws. Overall, including newspaper holder, 15½ in. by 6¼ in.
84 A 4734—Shipping weight 4 lbs. 8 oz.....**$1.10**

Ⓒ **Early English Design.** Rust-resisting gunmetal finish over 22-gauge sheet steel. Rivet effect. Weatherproof door with lock and key. Curled steel newspaper holders. Bracket holds box 2½ in. away from wall. Overall dimensions 12 in. by 7¾ in. by 3½ in.
84 A 4735—Shipping weight 6 lbs. 8 oz....**$4.25**

Ⓓ **Solid Wrought Brass Letter Box Plate.** Dull brass finish. Rustproof. Outside flap swings outward—automatically closes opening when released. Inside plate included. For doors 1 in. or more thick. Overall 10 by 3 in. Mail opening 7⅛ in. by 1½ in. With screws.
84 A 4727—Shipping weight 1 lb.....**98c**

Ⓔ **Dull Brass Finish Letter Box Plate.** Spring flap on outside plate. Inside plate included. For doors 1⅜ in. or more thick. With screws. Overall dimensions 10 in. by 3 in. Mail opening 7½ in. by 1½ in.
84 A 4738—Shipping weight 12 oz.....**59c**

Ⓕ **Cast Brass House Numbers.** Rustproof. 3 in. high. Numbers 0 to 9. Nails included.
84 A 3285—State Numbers. Wt. 2 oz. Each..**5c**

Be Prepared—Order Wards Lightning Rod Today!

Lightning starts more fires on U.S. farms than any other cause. Each year 18,000 unprotected buildings are struck. And each year lightning destroys about $20,000,000 worth of American farm property!

9c Per Ft. 100 Ft. or More

You can avoid the danger of such losses. Wards Lightning Rod and Conductors can reduce chances of fire from lightning to almost nothing by guiding lightning charges safely to earth.

Lasting protection. Many installations are known to be in perfect condition even after 25 years!

It costs a surprisingly small amount to protect your home and barns. 100 feet of cable, enough for an average building, cost only $9. And with Wards convenient Time Payment Plan you can pay for an order up to $14 for only $2 a month. (See Inside Back Cover for information and terms.)

Wards Lightning Rod Cable meets rigid specifications of Underwriters' Laboratories, Inc. It is made of 17-gauge pure copper wire, in two sizes—32-strand, satisfactory for buildings in most localities; and 42-strand, for large buildings and for localities where lightning is especially severe. Coppered cleats and nails furnished, along with complete instructions for installation. *Sold in any length* up to 500 feet. **State number of feet wanted.**

684 A 4950—32-Strand. 3/16-inch diameter. Shipping weight per 100 feet, 21 lbs.
Orders of 1 to 99 feet. Per foot.....9½c
100 feet or more. Per foot.....9c

684 A 4951—42-Strand. 3/16-inch diameter. Shipping weight per 100 feet, 28 lbs.
Orders of 1 to 99 feet. Per foot.....11½c
100 feet or more. Per foot.....11c

Make up your own combinations—for exa... ornamental upright (G) can be made from 484 A... 584 A 4966 and 584 A 4961. Total cost only $...
(H) 584 A 4966—4½-in. Diam. Glass Balls. C... of White or Blue. **State color.** Ship. wt. 12 oz...
(H) 584 A 4969—4½-in. Diam. Glass ... Choice of Gold or Silver. **State color.** Wt. 12 oz...
(J) 584 A 4963—23-in. Animal Vane. Gold b... finish. **State Choice of Horse, Cow or Roo...** Shipping weight 1 lb. 6 oz.....
(K) 584 A 4961—20-in. Aluminum Arrow ... Gold bronze finish. Ship. wt. 8 oz.....
(L) 584 A 4972—Chimney Upright. Co... bracket with 18-in. copper point, lead covered t... sist corrosion. Masonry anchors. Order cable to... to 1 ft. of chimney top. Ship. wt. 2 lbs.....
(M) 584 A 4971—Saddle Top Upright. ... rustproof copper point—silvered tip. Wt. 1 lb...
(N) 484 A 4959—Plain Upright. 48-in. rustp... copper point with silvered tip and 34-in. galva... brace. Shipping wright 3 lbs.....
(P) 484 A 4947—Plain Upright. 30-in. rustp... copper point with silvered tip and 18-in. galva... brace. Shipping weight 2 lbs.....
(R) 84 A 4953—Cable-End Connector. Co... Rustproof. Ship. wt., each, 3 oz.....
(S) 84 A 4952—Cable Branch Connector. ... per. Joins branch to main cable. Wt. 2 oz....
(T) 84 A 4960—Sheet Metal Connector. Bro... Joins cable to any metal. 4 screws. Wt. 3 oz....
(U) 84 A 4954—Track Connector. Bronze. ... connecting barn track, etc. Wt. 3 oz.....
(V) 84 A 4958—Eaves Trough Connec... Bronze. Joins trough to cable. Wt., each, 3 oz...
(W) 84 A 4948—Masonry Fastener. With ... per loop, screw and lead anchor. Ship. wt. 3 oz...

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There's a Ward POWR-KRAFT Tool for Every Need

BEGINNER

Light Duty

As a "Starter" outfit, the Powr-Kraft Workshop with motor at $49.35 shown below at right will give dependable service for average jobs; it is well suited for use by model makers, hobbyists, workers in wood, sculptors, handicrafters, etc. Order it now on Wards Time Payment Plan, sending $5 Down Payment and only

$5 PER MONTH

Then as the monthly payments are made, order additional tools as they are needed—first a $16.95 Drill Press, then a $14.98 Jointer, a $16.45 Band Saw, a $5.95 Sander, a $7.95 Flexible Shaft Outfit. Or why not order all the pieces above, including the Workshop, *NOW*. Send $10 as a Down Payment, then pay only $9 per Month.

HOBBYIST

Heavy Duty

For the "Regular" Hobbyist;—for tools that will do a better-than-average job, with greater ease and speed than minimum-priced tools, start with the following:

184 A 670— 8-Inch Ball Bearing Bench Saw....$29.95
184 A 899—11 by 37-Inch Lathe..... 23.45
484 A 769—16-Inch Jig Saw..... 21.45

Send only $7 Down Payment now, then only

$7 PER MONTH

As additional tools are needed, order the $29.95 Drill Press, $26.45 Jointer, $29.45 Band Saw, $23.95 Sander, $22.45 Shaper, $14.45 Hand Tool outfit, $16.25 Flexible Shaft outfit, and the NEW $3.25 Polishing Head outfit OR, better still, buy the complete outfit *NOW*, for $14 per Month.

PROFESSIONAL

Production or Industrial

Wards Production Tools meet industrial standards for production work. For the craftsman who takes pride and pleasure in using the highest quality or for those who earn their living with tools, start your shop with:

184 A 761—10-Inch Floor Model Saw.....$69.95
184 A 607—14 by 38-Inch Lathe..... 35.95
184 A 775—26-Inch Jig Saw..... 32.45
184 A 623—15-In. Floor Model Drill Press..... 44.95

For all of these send only $20 as a Down Payment and only

$12 PER MONTH

Then build up your shop with the $41.75 Jointer, $48.95 Band Saw, $23.95 Sander, and the $18.95 Hand Tool Outfit. *OR*, buy all above pieces *NOW*, for only $16 per Month.

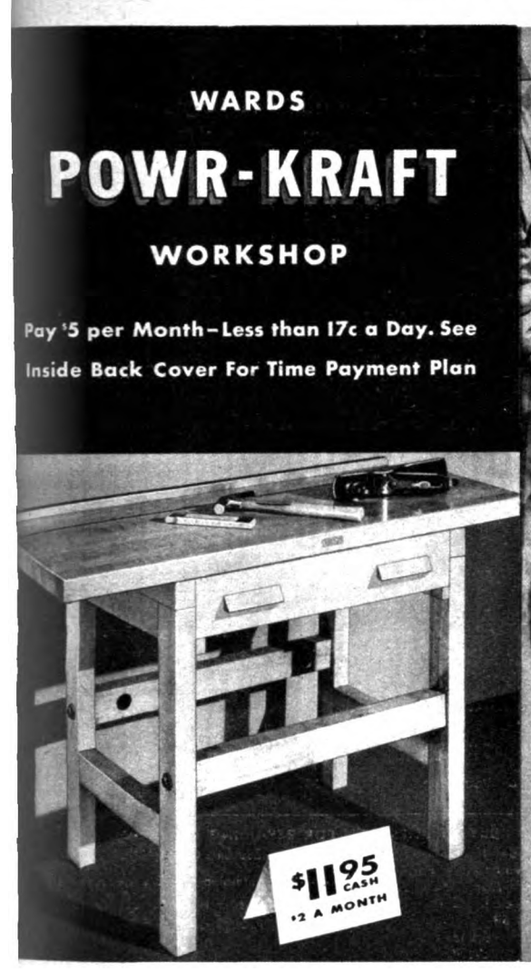
SEE INSIDE BACK COVER FOR COMPLETE DETAILS OF WARDS TIME PAYMENT PLAN

WARDS

POWR-KRAFT

WORKSHOP

Pay $5 per Month—Less than 17c a Day. See Inside Back Cover For Time Payment Plan



$11.95 CASH
$2 A MONTH



COMPLETE SHOP—Includes Bench Saw, Jig Saw, Lathe, Chisels, Steel Stand, with all Necessary Belts and Pulleys

Accessories Included

Less Motor
$39.95 CASH
$5 A MONTH

All-Around Wood Work Bench for Your Shop

kiln-dried wood, accurately pre-fitted. Fastened entirely with dowels, bolts—o unsatisfactory nails or screws—construction that insures longer service.

OP: No. 1 Northern Maple—best for Bench Tops—48 in. long, 21¾ in. wide, ⅞ in. thick. Work surface 32 in. high. Front part of top, glued strips 13½ in. ide—back tool recess 7½ in. wide. Entire top belt sanded, finished with two ats of shellac. Three holes in top for use with dog in vise jaw. Top rests on 4 owels in stand—shock-absorbing—vibration will not shake bench apart.

TAND: Heavy maple stock 2¾ by 1⅞ in., glued, mortise and tenon joints—raced front, back—rails doweled and bolted for extra strength—all finished in oil.

RAWER: Easy-sliding—26½ by 19 by 5 in.—all four corners dovetailed with oly bottom, grooved-in all around—wooden drawer pulls.

Shipped knocked-down to take lower freight rate—easily assembled—bolts rnished. For woodworkers' vises to fit see motor page 1093, Art. No. 484 A 6830 484 A 6834—these are easily mounted on the Work Bench and will handle work o to 10 in. wide. Rule, hammer and plane shown not included. *Not Mailable.*

84 A 592—Shipping weight 130 lbs. Cash.....$11.95

For Sawing, Turning, Sanding, Grinding, Drilling, Jig-Sawing

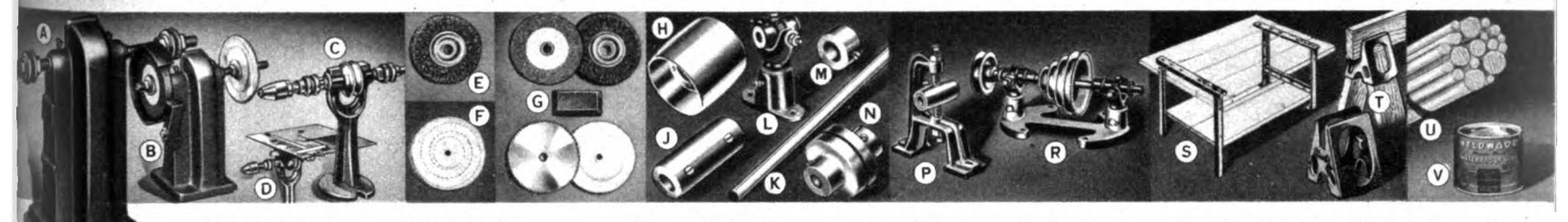
A Man-Sized Outfit of regulation Wards Powr-Kraft tools—Everything you need for fun and profit. No interference between tools—driven by V-belts from line shaft. ½-H.P. motor can be used if tools are run separately—otherwise use larger motor.

Outfit Includes: **7-in. Bench Saw** No. 484 A 885 with Miter Gauge (see next page).
12-in. Jig Saw with 12 blades No. 484 A 871 (see page 1095).
Lathe—10 by 27-in. capacity Gap Bed with built-in Grinding Wheel No. 484 A 637 (see page 1097).
Sanding and Drilling Attachments (See page 1097).
3 Woodworking Chisels with chisel holders (½-in. gouge, ¼-in. skew, parting tool).
6 Sanding Discs; all necessary belts, pulleys, shafts, bolts, nuts, and washers. Overall dimensions: 66 in. long, 22½ in. wide, 48½ in. high. Ready to operate except for motor.
With Heavy Gauge Steel Work Bench—has angle steel legs and braces. Channel steel motor and hanger supports drilled and slotted for all tools. Rigid—won't vibrate—noiseless! Has rubber-cushioned feet—prevent legs from rumbling. Drive shaft underneath—out of the way—takes up minimum space in your shop. Shipped knocked-down to save freight charges. Easily set up. Instructions furnished for setting-up and operating with suggestions for arrangement of a Home Workshop.

184 A 595—Powr-Kraft Workshop as described above, without motor. Shipping weight 161 lbs.....$39.95

184 A 596—Above Workshop with P483 A 9861, ½-H.P. 110-120 volt A.C. Split-Phase Electric Motor described on page 1093. Shipping weight 195 lbs. Cash Price.....$49.35

BUY AT WARDS WITH CONFIDENCE
Our 69-year-old Guarantee protects you. Read it on Page 1165



Heavy Duty Polishing Head

For grinding, buffing, polishing, scratch-brushing, etc. Modernistic design, strong gray iron base, belt and pulley completely guarded. Can be driven from below or behind. ½-in. diam. shaft —24 thread—length 7½ in. 2¼-in. diam. pulley for ½ or ⅜-in. V belt. Long life, self-lubricating bronze bearings. Oil cups included. 7¾ in. high.

(A) 84 A 9979—Polishing Head Only. Ship. wt. 7 lbs. 5 oz.....$2.19

(B) Above polishing head with 4-in. diam. grinding wheel, cloth buff, polishing compound, guard (not pictured) and tool rest. Ship. wt. 9½ lbs. 84 A 9978.....$3.25

Polishing Head

(C) For grinding, polishing, buffing, removing paint, etc. Bearings split for adjustment—have oil holes. ½-in. diam., 24 thread, 9¼-in. length shaft. 1½-in. tapered extension on one end for accessories with odd arbor holes. Cast iron base. 3 jaw ¼-in. chuck. 1¾-in. diam. pulley for ⅜-in. V or round belts.
84 A 9980—Ship. wt. 4 lbs. ...$1.19

Saw Table for Above

(D) 8 by 8-in. stamped steel with miter gauge. For 4-in. saw. 84 A 9981—Ship. wt. 3 lbs.....65c

5-Piece Utility Kit

(G) Saw, grinding wheel, scratch brush, buffer—all 4-in. diam., ½-in. arbor —and polishing comp. 84 A 9982—Ship. wt. 2 lbs....$1.19

Scratch Brushes

(E) Hardened, tempered steel wire fastened to steel core. For removing burrs, polishing welds, etc. **State diameter and bore wanted.**
84 A 6744—Fine .005 gauge wires.

Diam.	Bore In.	Wt. Oz.	Each
4 in.	½	6	36c
6 in.	½	12	44c

84 A 6743—Coarse .011 gauge wires.

4 in.	½	6	28c
6 in.	½	10	36c
8 in.	⅝	20	46c

Cloth Buffing Wheels

(F) 20 layers of bleached muslin. Spiral sewed. Ship. wts. 3, 4, 5 oz. 84A6742—State diam.

Diam.	Hole In.	Each	2 for
4 in.	½	8c	15c
6 in.	½	13c	25c
8 in.	½	22c	40c

Flat Face Pulleys

(H) Die cast metal, uniform high tensile strength. Face crowned slightly. All sizes have set screws; 3 by 3-in. (⅝ and ¾-in. bore) have keyway also.
84 A 9969—State size and bore.

Size, In.	Bore In.	Ship. Wt.	Each
1½ x 1¾	½, ⅝	8 oz.	25c
2 x2	½, ⅝, ¾	12 oz.	32c
2½ x2½	½, ⅝, ¾	1 lb. 4 oz.	41c
3 x3	½, ⅝, ¾	1 lb. 8 oz.	65c

(K) **Steel Shafting**—Precision ground to .001 in. Ship. wts. 2 lbs. and 6 lbs. 4 oz. each.
84 A 9985—½ by 24 in.....25c
484 A 9986—¾ by 48 in....95c

(L) **Shaft Hangers**—Self-aligning, adjustable 3 ways. Bronze bushed bearings, with oil cup. Broached to insure alignment.
84 A 9987—Wt. 1 lb. 12 oz. State bore size.
½-in. bore. Ea. 89c; 2 for $1.65
¾-in. bore. Ea. $1.10; 2 for 2.10

(M) **Line Shaft Collars**—Steel. Flush set screws. State size.
84 A 9984—Ship. wts. 2 and 3 oz.
½-in. bore. Each 9c; 2 for 17c
¾-in. bore. Each 14c; 2 for 25c

Flexible Couplings

(N) Die cast, Rubber cushioned. Ship. wts. 7 and 10 oz. State Size.
84 A 9970—½-in. bore. Each 35c; 2 for.....65c
84 A 9971—¾-in. bore. Each 45c; 2 for.....85c

(J) **Solid Couplings** Connects shafts. Length 2 in. Steel.
84 A 9983—State Size. ½-in. bore. Ship. wt. ea. 6 oz. Each 18c; 2 for.....34c
¾-in. bore. Wt. ea. 8 oz. Each 30c; 2 for.....56c

Do You Know? that anything Wards sell can be purchased on our Time Payment Plan. See Inside Back Cover.

Shaft Hanger

(P) Heavy Duty type. Open side for quick change! Self-aligning—height of shaft adjusts from 4 to 5 in. Two self-lubricating bronze bushings, 2¼ in. long 1⅛ in. each side of oil well, ¾-in. bore. Ht. 7¼ in. Ship. wt. 4 lbs. 8 oz.
84 A 9997....$1.98

Quick-Change Jack Shaft

(R) Increases or decreases speed by shifting belt. Cast iron frame. Ground, steel shaft runs on bronze bushed bearings—with oil cups. Height adjustment. One 2½-in. regular and one 4-in. 4-step pulley. Takes ⅜ or ½-in. V-belt.
584 A 9988—Ship. wt. 12 lbs.....$2.98

Work Bench Legs

(S) Build your own work bench. Heavy gauge angle steel legs. Top and cross bars punched for attaching boards; legs punched for bracing. 31¼ in. high, 23 in. wide. Welded joints. Enamel fin. Wt. 23 lbs.
484 A 8839—Set of 2 ends...$2.85

Saw Horse Joints

(T) Insert lumber in joints. Pair makes one saw horse. Malleable iron, painted.
84A8892—For 1 by 3-in. finished wood. Ship. wt. pr. 3 lbs. Pr..89c; 2 prs. $1.68
84A8893—For 2 by 4-in. finished wood. Ship. wt. pr. 6 lbs. Pair.....$1.65
2 prs.....3.15

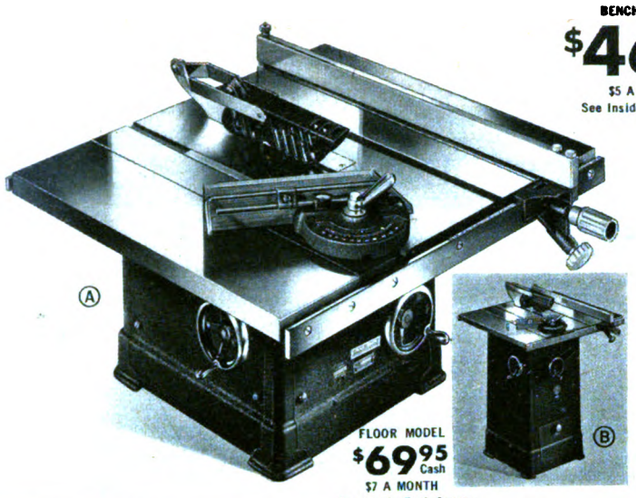
Hardwood Dowels

(U) 13 selected birch and maple dowels wrapped in moisture-proof cellophane. Use for chair backs, rungs, toys, models, etc. All pieces 16 in. long. Includes four ¼", four ⅜", two ½", one ⅝", one ¾" and one ⅞ in. diam. Wt. 1 lb. 2 oz.
84 A 588—Bundle.22c
3 bundles for.....59c

Weldwood Glue

(V) Waterproof—a nationally advertised plastic resin product. Properly applied, wood or other fibrous materials will fail before glue joint. Easy to mix—no waiting before using. Cold setting—use after few hours. Ship. wts. 6, 10 18 oz.
84A8894—3½ oz.25c
84A8895—8 oz.. 50c
84A8896—1 lb. ..85c

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TILTING ARBOR PRODUCTION SAWS

For Professional Craftsmen and Industrial Shops

Ⓐ **Bench Model, 8-Inch Blade:** tilts, raises, lowers—cuts to 2⅜ in. depth—⅜ in. deeper than some—blade (not table) moves—work always at same height—always level—easier to hold on table when cutting angles. Crucible steel combination rip and crosscut blade tilts to cut any angle up to 45°—gauges show angle of cut and tilt of blade. **Table:** 27 by 23 in. with ribbed steel non-warping extensions—15 by 23-in. cast iron center—10⅜-in. clearance in front of blade. Table is ground on magnetic grinder—has slot with removable cover for 6-in. dado heads, etc. Hand wheels adjust angle of tilt and depth of cut. **Operating Mechanism:** ⅝-in. alloy steel saw arbor runs on Sealed-from-Dirt New Departure Ball Bearings. Bearing housing has grease plug for easy lubrication. True-balance—tilts on 2 machined cast-iron trunnions, operated by Acme thread screw. Raising, tilting mechanism, motor mounting, spindle housing of extra heavy construction, are suspended from cast iron trunnions—all move together when saw tilts. Bracket takes standard motor—does not interfere with progress of work. **Miter Gauge:** Free-Swing—Used for all angles up to 60° either direction—precision built, has wooden face plate and adjustable stop rods for multiple cuts—locks on own axis, will not move while being locked. Finger-tip control—retain "feel" of work—gauge easily handled with one hand and moves freely in milled table grooves on either side of blade. **Rip Fence:** Channel steel—strong but lightweight for easy movement—used either side of blade—micro-set gives Vernier adjustment to small fractions of inch—full length fence locks independently front and back on solid steel guide bars—assures accurate work. **Approved Safety Guard;** Clear-view t slotted blade guard for safety, protects but d not hide! Rises easily as blade progresses thro work. **Spread-Right Splitter:** prevents bind **Anti-Kick-Back:** attached to splitter all work to pass freely in cutting direction but g instantly—without marring—to prevent w being kicked back toward operator. Entire gu splitter, anti-kick-back assembly tilts autom ically with saw blade and meets all state sa requirements.

184 A 764—Saw Only. Ship. wt. 122 lbs. . $46

384 A 765—Above Saw with No. 483 A Motor. (See page 1093.) 5-in. motor pulley, 37-in. V belt. Ship. wt. 166 lbs. $63

Ⓑ **Floor Model Saw, 10-Inch Blade:** Like a Saw but has 10-in. blade—cuts to 3⅜ Table is 30 by 27 in. with extensions—cast table size 18 by 27 in. Height to table top 35½ capacity in front of blade 12¼ in. **Base:** E rigid—cast iron legs with steel panels—c keeps sawdust from mechanism—feeds it o wood floor in base—keeps shop clean—rem through door in front panel.

184 A 761—Saw only. Ship. wt. 230 lbs. . . $69

384 A 762—Above Saw with No. 483 A Motor (See Page 1092). 4-in. V pulley and V Belt. Ship. wt. 303 lbs. $10

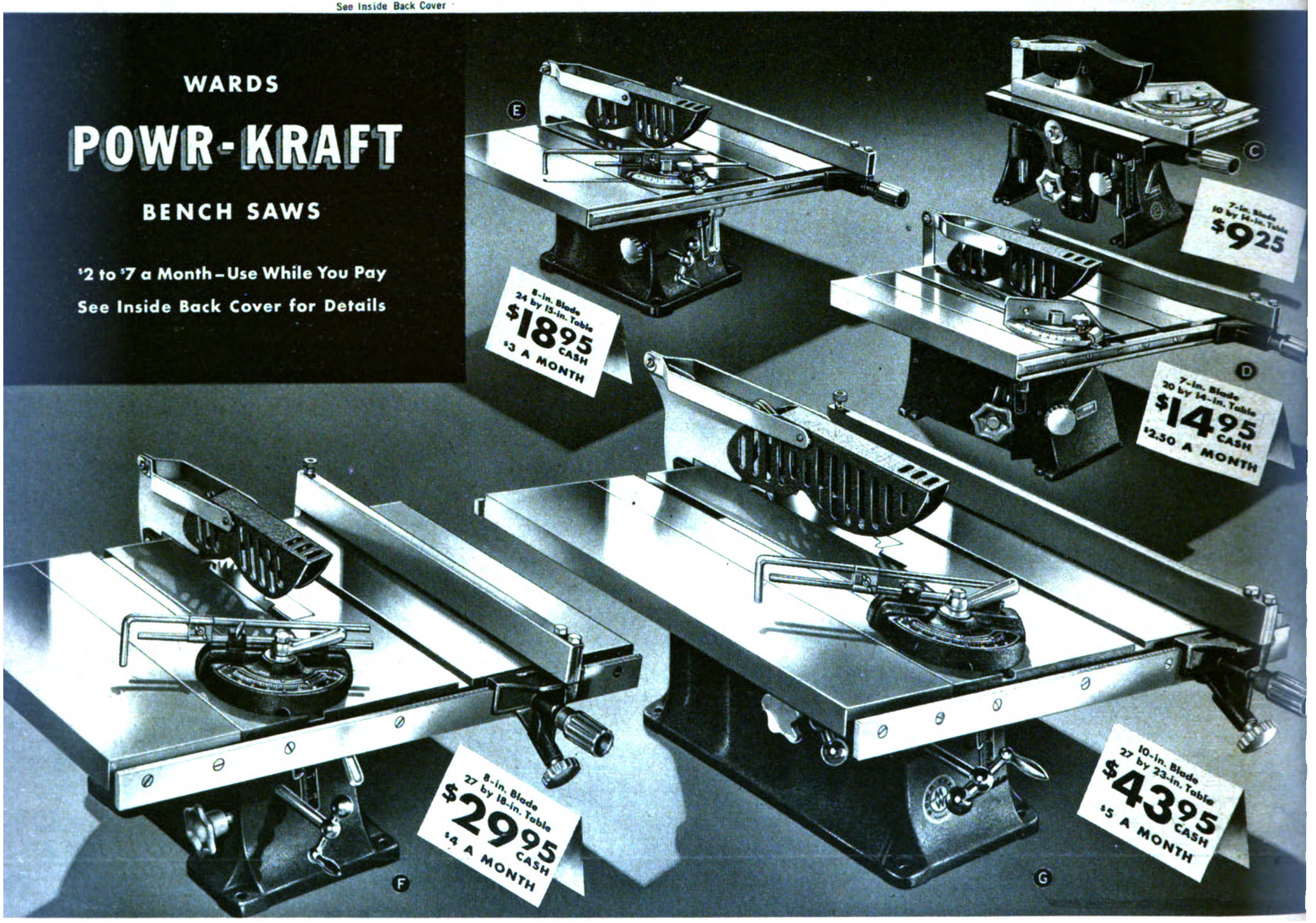
WARDS

POWR-KRAFT

BENCH SAWS

'2 to '7 a Month—Use While You Pay

See Inside Back Cover for Details



All Wards Bench Saws Shown Above Have These 10 Features:

(1) Tables are of heavy gray cast iron, ribbed for strength—non-warping—ground on magnetic grinders, and polished. (2) Tables tilt to cut any angle up to 45°. (3) Slots for dado heads, etc. have easily removable covers. (4) Table Extensions are heavy, steel-ribbed, non-warping. (5) Compensating springs are built into each saw to make up and down movement easy and without backlash. (6) Indicators show depth of cut and tilt of table. (7) Free-swing miter gauges can be used for all angles to 60° either direction, either side of tables. (8) Rip Fences are channel steel, strong but lightweight for easy, accurate movement. (9) Blade guards *meet all State safety codes.* (10) Drive from fixed motor or line shaft.

	(C) 484 A 885	(D) 484 A 660	(E) 484 A 664	(F) 184 A 670	(G) 184 A 692
CASH PRICE	$9.25	$14.95	$18.95	$29.95	$43.95
SAW BLADE, Size	7 In.-⅛-in. Arbor	7 In.-⅛-in. Arbor	8 In.-⅝-in. Arbor	8 In.-⅝-in. Arbor	10 In.-⅝-in. Arbor
Cuts to Depth	2¼ In.	2¼ In.	2⅜ In.	2⅜ In.	3⅜ In.
TABLE, with Extensions	Order Separately Below	20 by 14 In.	24 by 15 In.	27 by 18 In.	27 by 23 In.
Cast Iron Center	10 by 14 In.	10 by 14 In.	12 by 15 In.	15 by 18 In.	15 by 23 In.
Front Clearance	4¹³⁄₁₆ In.	4¹³⁄₁₆ In.	5¼ In.	7½ In.	10¼ In.
Takes Dado Heads	4 In.	4 In.	6 In.	6 In.	6 In.
BEARINGS	Bronze Bushings	Bronze Bushings	Bronze Bushings	New Departure Ball	New Departure Ball
TABLE Raises, Lowers, Tilts	By Hand—Locking Handle	By Hand—Locking Handle	By Hand—Locking Handle	By Hand—Locking Handle	Ball Crank through Acme Thread Screws
TRUNNIONS	Front and Back—Wedge Action	Front and Back—Wedge Action	Front and Back	Front and Back	Double—Front and Back
MITER GAUGE Size of face	5⅛ by 1³¹⁄₁₆ In.	5¹³⁄₁₆ by 1¹⁵⁄₁₆ In.	5¹³⁄₁₆ by 1¹⁵⁄₁₆ In.	6⅝₁₆ by 1⅝ In—Has Cut Off Rods	6⅝₁₆ by 1⅝ In—Has Cut-Off Rods
RIP FENCE, Length	¾ Length—15 In.	Full Length—17 In.	Full Length—18 In.	Full Length—21½ In.	Full Length—26½ In.
Micro Set	No	No	No	Yes	Yes
Locks On	Front Bar Rear No Lock	Front Bar Rear Table	Front Bar Rear Table	2 Solid Bars	2 Solid Bars
SAFETY GUARD	Solid Type	"Clear-View"	"Clear-View"	"Clear-View"	"Clear-View"
SPLITTER	Wedge Shape Bar	Full Length	Full Length	Full Length	Full Length
ANTI KICK BACK	None	None	No-Mar	No-Mar	No-Mar
	484 A 885 Saw Wt. 48 lbs. . . . $9.25	484 A 660 Saw only. Shipping weight 41 lbs. . . . $14.95	484 A 664 Saw only. Shipping weight 82 lbs. . . . $18.95	184 A 670 Saw only. Shipping weight 73 lbs. . . . $29.95	184 A 692—Saw only. Shipping weight 117 lbs. . . . $43.95
Buy your Powr-Kraft Tools on Wards Time Payment Plan. See Inside Back Cover for Details.	484 A 890 Extension—each 5-in. wide—one for each side—increases working area to 20 by 14 in. Shipping weight 6 lbs. Set. $1.69	384 A 662—Above with No. 9855 Motor, 4-in. motor pulley, 44-in. V belt. Shipping weight 74 lbs. $24.25	384 A 665—Above with No. 9842 Motor, 5-in. motor pulley, 44-in. V belt. Shipping weight 95 lbs. $36.35	184 A 671—Above with No. 9842 Motor, 5-in. motor pulley, 44-in. V belt. Shipping weight 116 lbs. $47.35	184 A 693—Above with No. 9842 Motor, 4-in. motor pulley, 44-in. V belt. Shipping weight 161 lbs. $61.25

Explanation of Features in Table at Left

Now Departure Ball Bearings are precision made, Lubricated-for-Life and Sealed-from-Dirt.

Bronze Bearings are self-lubricating; they absorb oil readily—need only infrequent oiling. Both ball and bronze bearings are mounted directly in base castings to insure longer bearing life and permanent accuracy.

Micro-Set on Rip Fence gives vernier adjustment to minute fractions of an inch—assures quick and accurate settings.

Saw Blade furnished with each saw is crucible steel combination rip and crosscut.

"Clear-View" type Guard over saw blade is slotted—protects but does not hide—rises easily as blade progresses through work.

Full-Length Splitter follows kerf of saw blade, keeps work spread properly so it cannot bind. Adjustable on bracket.

No-Mar Anti-Kick-Back prevents work being "kicked-back" toward operator—patented rubber insert between two steel plates has no teeth to mar finished work.

Motors offered in above outfits are described on page 1093.

Miter Gauges are strong but lightweight, easily handled with one hand—retain "feel" of work.

DADO HEADS



Ⓗ **For grooving, rabbeting etc. Heat treated and tempered; set and filed.** Complete Set consists of 2 outside blades and inside chippers. All chippers about 5/16 in. thick. 5-in. blades about ⅛ in. thick. 4-in blades about 1/16-in. thick. **State diam.**

State Art. No. and diam.	84 A 785 Complete	84 A 716 Blade	84 A 715 Chipper
4-in. diam. ½-in. bore	$2.39	55c	23c
5-in. diam. ⅝-in. bore	3.25	95c	29c
Ship. wt.	1 lb.	8 oz.	1 oz.

Ⓙ **6-in. Tool Steel Heavy Duty Dado Head.** Precision ground, correctly heat treated and tempered tool steel for smooth cutting. ⅝-in. bore. For all Wards 8 and 10 in. Powr-Kraft Saws. Set consists of 2 outside blades about 1/16 in. thick, and 4 inside chippers—2 are ⅛ in. thick, 1 is 1/16 in. thick and 1 is 1/32 in. thick. Ship. wt. 3 lbs. 4 oz. **$8.89**

84 A 778—6-piece Set. . . . . .

ABRASIVE DISC



Rubber-bonded for quick, clean cutting of metals, stone, brick, tile, etc. Diameter 8 in.; ½ in. thick; has ⅝-in. hole. For best results use speeds from 5000 to 6000 R.P.M. Use on 8 in. saws.

84 A 8901—Ship. wt. 14 oz. Each. 99c

Wards Powr-Kraft Bench Saws can be used with any constant speed motor or gas engine of sufficient power

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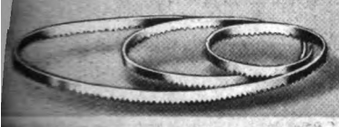
Equip Your Shop Now... With

WARDS POWR-KRAFT

Use Wards Time Payment Plan

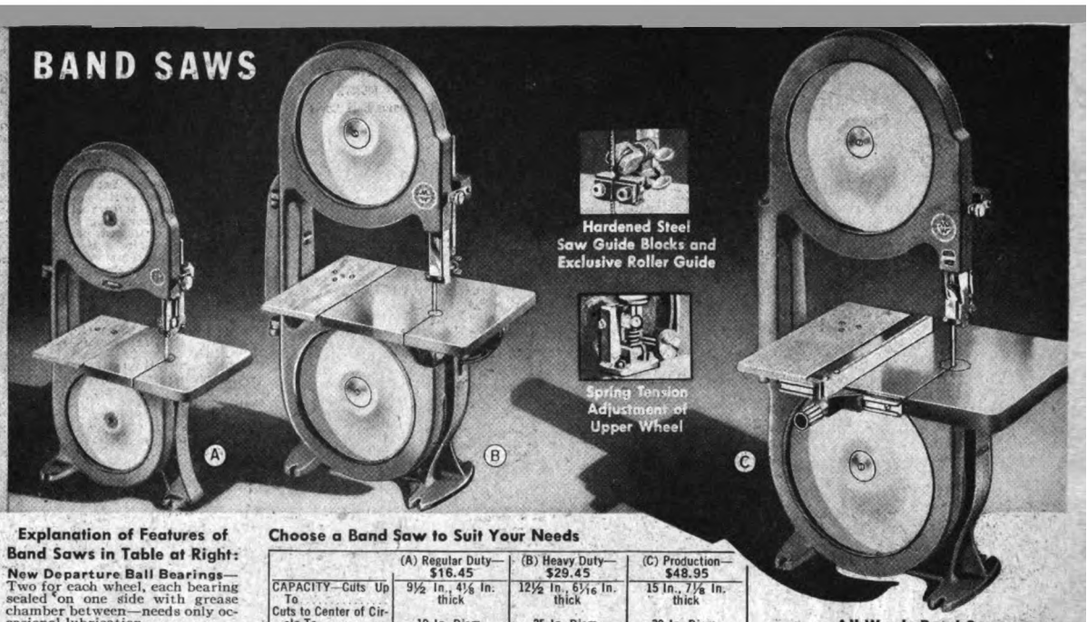
Anything Wards sell can be purchased on our Time Payment Plan. What could be more practical than to set up your shop at one time with the tools and machines you need, making small monthly payments while they are in use? See inside of the back cover for complete details of the plan.

Band Saw Blades—High Carbon Tool Steel



- Tempered, Heat-treated
- Teeth Set and Filed

BAND SAWS



Hardened Steel Saw Guide Blocks and Exclusive Roller Guide

Spring Tension Adjustment of Upper Wheel

Standard Lengths

A 746—For cutting wood. Widths ⅛, ¼, ⅜ in. State length and width. Wt. 6 oz. 3 in. around.
For No. 845 Saws. Each.. **79c**
4 in. around.
For No. 852 Saws. Each.. **85c**
5 in. around. (½-in. also)
For No. 766 Saws. Each.. **$1.15**

A 750—Blade 111 inches round. Ship. wt. 8 oz. State width. ⅛, ¼, ⅜-in. widths. Each..... **$1.19**

A 757—For soft metal, plastics. ⅜ in. wide. State size. Ship. wt. 6 oz. each. 3 in. around.
For No. 845 Saws. Each.. **95c**
4 in. around.
For No. 852 Saws. Each **$1.00**
5 in. around.
For No. 766 Saws. Each.. **$1.25**

Band Saw Blade Welding

Minimum of 3 blades will be welded at Factory in Chicago in 7 days. Charge, 3 Blades for 89c.

Band Saw Blades By the Foot

For cutting wood. 6 teeth to inch. Sold any length, but you pay for next even foot. Minimum order 4 ft. Not welded—Add 38c for welding each blade—3 blades welded for 89c.

Shipped from Factory in Chicago in 7 days. Send order to Wards nearest Mail Order House. **Be sure to state width and length wanted and add welding charge.**

M284 A 760

Width In.	Ship. wt. Per Ft.	Per Ft.
¼	1 oz.	9c
⅜	1 oz.	10c
½	1 oz.	11c
⅝	1 oz.	12c
¾	2 oz.	14c
1	2 oz.	16c
1¼	3 oz.	20c
1½	3 oz.	24c

Explanation of Features of Band Saws in Table at Right:

New Departure Ball Bearings—Two for each wheel, each bearing sealed on one side with grease chamber between—needs only occasional lubrication.

Self Lubricating Bronze Bearings—Two for each wheel, absorb oil easily, assure even lubrication.

Concave Roller Guides—are of hardened, ground steel; mounted on Ball Bearings. Set at an angle, the blade contacts entire face of roller. Rollers rotate in same direction as saw blades to eliminate friction—prevents grooving and increases life of blade. Rollers are adjustable for size of blade used.

Blade Guide Blocks—above and below—hardened steel adjustable for any blade size.

Rip Fence—15 inches long, made of heavy gauge Channel steel—easy to adjust accurately.

Heavy Cast Trunnions—are accurately machined to support table in any position—adjustable for take-up. Pointer and scale indicate degree of tilt of table.

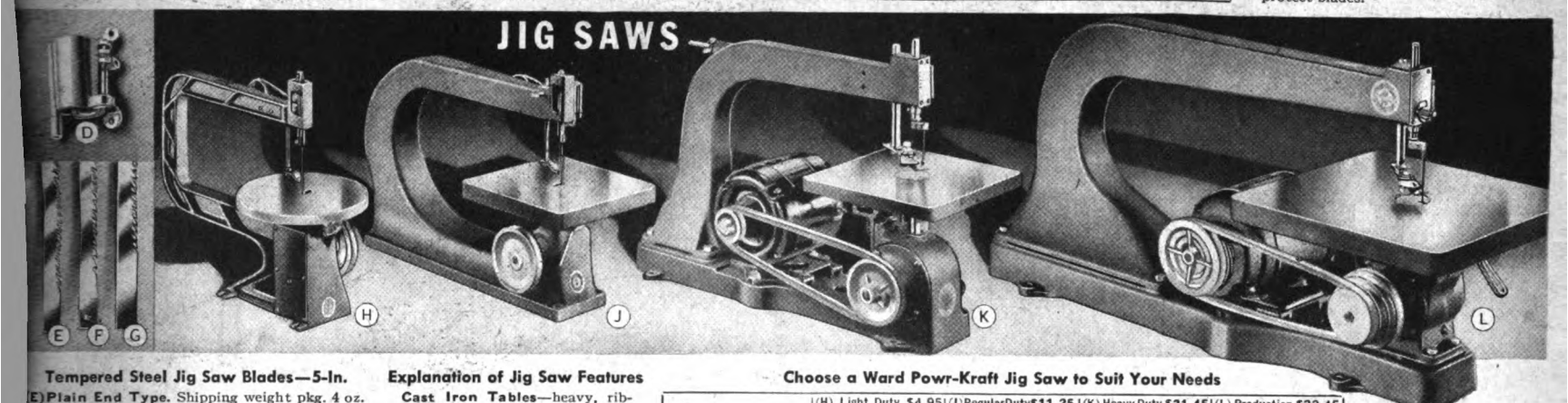
Choose a Band Saw to Suit Your Needs

	(A) Regular Duty—$16.45	(B) Heavy Duty—$29.45	(C) Production—$48.95
CAPACITY—Cuts Up To	9½ In., 4⅛ In. thick	12½ In., 6⅛ In. thick	15 In., 7⅛ In. thick
Cuts to Center of Circle To	19-In. Diam.	25-In. Diam.	30-In. Diam.
TABLE—With Wood Extension	13½ by 9 In.	16⅝ by 12 In.	21 by 15 In.
Cast Iron Table	9 by 9 In.	12 by 12 In.	15 by 15 In.
Rip Fence	No	No	Yes
WHEEL BEARINGS	Self-Lub. Bronze	4 New Departure Ball	4 New Departure Ball
BLADE (Included)	60 by ¼ In.	78 by ¼ In.	95 by ⅜ In.
BLADE ROLLER GUIDES Type	Above Regular Double	Above and Below Ball Bearing Concave Double	Above and Below Ball Bearing Concave Front and Back
TRUNNIONS	875 R.P.M.	675 R.P.M.	600 R.P.M.
SPEED RECOM'N'D	26½ In.	34 In.	41 In.
OVERALL HEIGHT	9½ In.	13½ In.	22½ In.
OVERALL DEPTH	15¾ In.	20⅞ In.	25⅜ In.
OVERALL WIDTH	4-In.	6½-In.	6½-In.
MACHINE PULLEY (Included)	(A) 484 A 845—Saw. Wt. 48 lbs.. $16.45	(B) 184 A 852—Saw. Wt. 99 lbs.. $29.45	(C) 184 A 766—Saw. Wt. 150 lbs.. $48.95
All Wards Band Saws adaptable for cutting light metals, plastics, etc. with correct blades.	384 A 858—Saw with 9854 Motor, 2-in. motor pulley, 39-in. V-belt. Wt. 77 lbs.. $24.29	184 A 853—Saw with No. 9861 Motor, 2½-in. motor pulley, 39-in. V-belt. Wt. 135 lbs.. $39.55	184 A 767—Saw with No. 9842 Motor, 2½-in. motor pulley, 53-in. V-belt. Wt. 193 lbs.. $65.98

All Wards Band Saws Shown Above Have These Features!

(1) Cast iron tables ribbed for strength—non-warping—ground on magnetic grinders and polished. (2) Tables tilt up to 45°. (3) Wooden table extensions. (4) Cast iron frames, *one piece* for perfect alignment. (5) Cast iron guards; *one piece*—guards blade completely, easy changing of blades—loosen single hand knob and guard swings out as one unit. No sawdust-removal problem with this type of guard. (6) Wheels perfectly balanced after casting, for smooth-running action. (7) Wheels are crowned, and are rubber covered—keeps blade properly centered—sure grip, quiet running. (8) Wheels are "dished" so load is directly on bearings. (9) Upper wheels are mounted so that adjustments can be made for tension, alignment. Heavy springs absorb shocks—reduce blade breakage. (10) Soft metal inserts in table to protect blades.

JIG SAWS



Tempered Steel Jig Saw Blades—5-In.

(E) Plain End Type. Shipping weight pkg. 4 oz.

For Plastics, Wood

84 A 8886—.012 by .023 in. 20-pt. Pkg. of 6....15c; 2 pkgs.28c
84 A 8889—.017 by .043 in. 18-pt. Pkg. of 6.....18c; 2 pkgs.34c

Metal, Wood, to 1 In.

84 A 8888—.020 by .070 in. 15-pt. Pkg. of 5.....18c; 2 pkgs.34c
84 A 8784—.02 by .11 in. **State 10 or 15-pt.** Pkg. 6.14c; 2 pkgs.26c

For Fast Cutting, Easy Turns in Wood.

84 A 8783—.01 by .04 in. 18-pt. Pkg. of six..29c; 2 pkgs..55c

For Thin Metal Etc.

84 A 8885—.016 by .034 in. 32-pt. Pkg. of 6....10c; 2 pkgs..18c
84 A 8887—.016 by .054 in. 20-pt. Pkg. of 6....15c; 2 pkgs..28c
84 A 8785—Assorted. Package of 12.... 29c

(F) Pin End Type. 12 in pkg. Ship. wt. pkg. 4 oz.
84 A 8774—.01 by .04 in. 20-pt. Pkg..... 35c
84 A 8775—Assorted sizes. Pkg..... 35c

(G) Saber Type. Ship. wt. Pkg. 2 oz.
84 A 8781—.028 by .187 in. 10 pt. Pkg. of 3. 19c
84 A 8780—Pkg. 12 asst. sizes..... 52c

Explanation of Jig Saw Features

Cast Iron Tables—heavy, ribbed, non-warping, ground, polished.

Self-Lubricating Bronze Bearings—2 each for camshaft, upper and lower spindle—provides proper support and assures smooth operation.

Scotch Yoke Action—Hardened alloy steel cross head and nickel babbitt slide—piston type—balanced—no blade "whip"—keeps blade vertical—runs in oil.

Cantilever Type—adjustable spring tension for blades.

Balanced Eccentric Cam—hardened and ground.

Roller Upper Blade Guides—adjustable—blade travels on edge—reduces breakage.

V-Type Lower Guides—Give added support to blade. Hardened steel, adjust close to table.

Metal Insert—protects blade.

Choose a Ward Powr-Kraft Jig Saw to Suit Your Needs

	(H) Light Duty $4.95	(J) Regular Duty $11.25	(K) Heavy Duty $21.45	(L) Production $32.45
CAPACITY—Cuts to Center of Circle	12 In., 2⅜ in. thick 24-In. Diam.	15 In., 2¼ in. thick 30-In. Diam.	16 In., 1⅞ in. thick 32-In. Diam.	26 In., 2¼ in. thick 52-In. Diam.
Saber Blade Cutting	No-Arm Not Removable	No-Arm Not Removable	Yes—Removable Arm	Yes—Removable Arm
TABLE—Material	8½-in. Diam. Steel	9-in. Diam. Cast Iron	10-in. Diam. Cast Iron	15-in. Diam. Cast Iron
Metal Insert	No	No	Yes	Yes
ACTION	Balanced Eccentric Cam	Balanced Eccentric Cam	Scotch Yoke	Scotch Yoke
BEARINGS	Cast Iron	Cast Iron	6 Self-Lub. Bronze	6 Self-Lub. Bronze
BLADE GUIDES—Upper	Combination Guide, Hold-Down	Combination Guide, Hold-Down	Roller	Roller
Lower	None	None	V-Type Adjustable	V-Type-Adjustable
CHUCK—On Saw	Clamp Block, Set Screw	Clamp Block, Set Screw	Universal—Turns Right	Universal—Turns Right
SPINDLE TENSION	Torsion; Coil Spring	Torsion; Coil Spring	Cantilever Type—Adj.	Cantilever Type—Adj.
SPEEDS	875 R.P.M.	875 R.P.M.	1065 R.P.M.	650, 1000, 1300, 1750
SAWDUST-BLOWER	None	Built-In	Built-In	Built-In
	(H) 484 A 871—Saw only. Wt. 20 lbs..... $4.95	(J) 484 A 839—Saw only. Wt. 32 lbs..... $11.25	(K) 484 A 769—Saw only. Wt. 70 lbs..... $21.45	(L) 184 A 775—Saw only. Wt. 133 lbs..... $32.45
			384A770—No. 484A769 with 9854 motor, 2½ in. motor pulley and 33-in. Belt. Wt. 98 lbs.... $29.25	184A776—No. 184A775 with 9854 motor, 9960 motor pulley and 33-in. Belt. Wt. 162 lbs.... $40.75

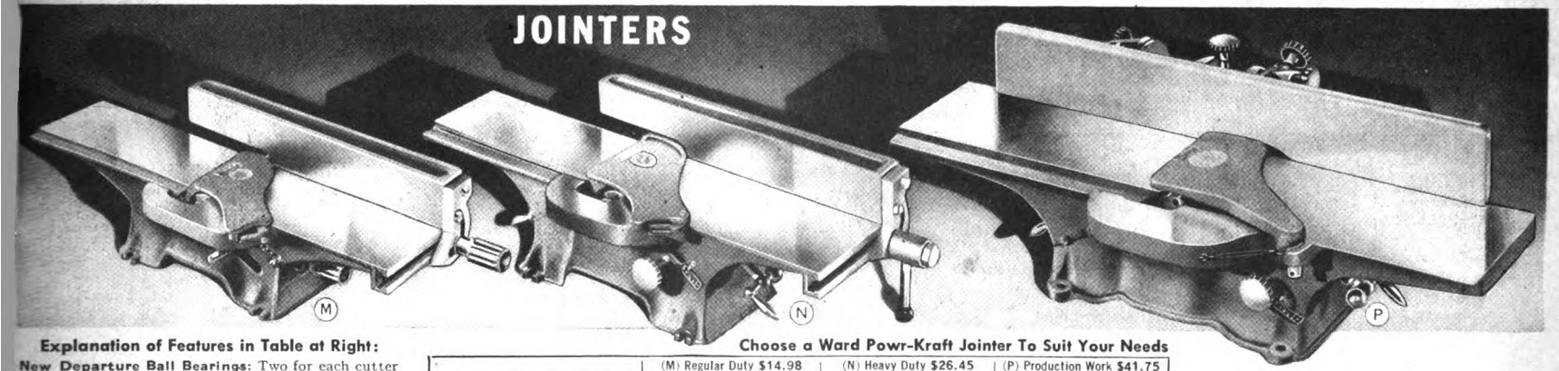
(D) Sawdust Blower—Clears sawdust from cutting line. Operated by upper spindle. Shipping weight each 3 oz.

84 A 768—For all Wards new and old 12 and 15-inch models 45c
84 A 756—For all Wards new and old 16 and 26-inch models 45c

All Wards Jig Saws Have these Features:

(1) Tables tilt up to 45°; gauges show angle of cut. (2) Cast iron frames—keep all parts aligned. (3) Equalized blade tension assures even tension throughout stroke—reduces blade breakage—makes smooth cut. (4) Hold-downs are adjustable. (5) Mechanisms run in dust-free bath of oil—assures positive, continuous lubrication. (6) 5-inch plain end blade furnished with each. (7) Need only ¼-H.P. Motor.

JOINTERS



Explanation of Features in Table at Right:

New Departure Ball Bearings: Two for each cutter head, grease-sealed bearing at pulley end; bearing with grease chamber at front end—long, trouble-free life.

Self Lubricating Bronze Bearings—Two for each cutter head—absorb oil easily—assures long bearing life and smooth, effortless operation.

Triple Lock Fence—Three hand-locking knobs assure fence alignment—additional separate lock on fence bracket allows fence to be moved across table without changing angle of tilt. Indicator shows degree of tilt.

Rear Table Fence Mounting—Fence is flush with rear table—impossible for thin work to slide under fence and wedge—mechanism acts as guard over knives to right of fence. Safest design yet produced.

Steel Fence—Strongly reinforced to prevent warping or twisting—easy to move and adjust with accuracy.

Locking Safety Guard—(on 6-in. Jointer) an additional Safety Feature—can be padlocked on machine to prevent removal of guard without permission.

Choose a Ward Powr-Kraft Jointer To Suit Your Needs

	(M) Regular Duty $14.98	(N) Heavy Duty $26.45	(P) Production Work $41.75
CAPACITY—Cuts To	4½-in width, 5/16-in. depth	5-In. Width, ⅜-in. depth	6-In. Width, ⅝-in. depth
BEARINGS	Self-Lubricating Bronze	New Departure Ball	New Departure Ball
TABLES—Front—Size	7¾ by 11⅜ In. Long	8⅝ by 12½ In. Long	10½ by 16 In. Long
Back—Size	5¾ by 11⅜ In. Long	6⅛ by 12½ In. Long	7⅜ by 17 In. Long
Size of Knives	4½-In.	5 1/16-In.	6⅛-In.
DEPTH ADJUSTMENT	Steel Screws by Hand Knob	Steel Screws by Ball Crank	Steel Screws by Ball Crank
FENCE—Type	Double-Tilting, Self-Aligning Cast Iron	Double-Tilting, Self-Aligning Cast Iron	Triple-Lock, Double-Tilting, Self-Aligning
Mounted	Flush on Front Table	Flush on Front Table	Flush with Rear Table
Adjustment	Hand Knob	Swing-Lever Lock	Triple-Lock Type
	(M) 484 A 625—Jointer only. Ship. wt. 36 lbs. $14.98	(N) 484 A 696—Jointer only. Wt. 52 lbs..... $26.45	(P) 184 A 618—Jointer only. Wt. 107 lbs.... $41.75
		384 A 697—Above with motor No. 9842, (Pg. 1093) 6-in. V-pulley, 44-in. V-belt. Ship. wt. 96 lbs..... $43.98	184 A 640—Above with motor No. 9842, (Pg. 1093) 6-in. V-Pulley, 44-in. V-belt. Ship. wt. 151 lbs..... $59.25

Knives—For all jointers or planers of sizes listed. Tempered, high speed tool steel—hold sharp edge. **Check overall width of blades.**

84 A 8929—4½-in. Knives, 1 3/32 in. wide, 3/32 in. thick.
Set of 3. Shipping weight 4 oz. $1.98
84 A 8912—5 1/16-in. Knives, ¾ in. wide ⅛ in. thick.
Set of 3. Shipping weight 6 oz. 2.98
84 A 8933—6⅛-in. Knives, ¾ in. wide, ⅛ in. thick.
Set of 3. Shipping weight 8 oz. 3.25

All Wards Jointers Have These Features:

(1) Cast iron tables machine ground in pairs after assembly—assures front and back alignment. (2) Back tables have rabbeting ledges. Front tables have rabbeting arms. (3) Cast iron bases have accurately machined ways for easy raising and lowering for depth adjustment. (4) Fences tilt and lock at any angle to 45° either way. (5) Approved Safety guards have positive-acting spring—easily removed without tools for rabbeting. (6) One-pc. cutter heads dynamically balanced after blades are installed. (7) Bearings are mounted in base castings to assure accuracy and longer bearing life. (8) High speed tool steel knives have safety chip breakers—prevent kick backs. (9) Wards jointers use standard 1750 R.P.M. 1450 R.P.M. Motors.

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$23.45 Cash
$3.50 MONTH
Order from Table
On Opposite Page

With New Departure Ball Bearings

Wards Lathes Have These 12 Features:

(1) Beds, headstocks, and tailstocks are heavy gray cast iron (not light weight stamped steel). (2) All Wards Lathes except the Light Duty have machined V and Flat way beds. Heads and tailstocks have corresponding machined V and Flat ways to keep them in perfect alignment and in same relation to work along entire length of bed. (3) Headstocks and Tailstocks are machined in pairs for precision alignment on machined bed ways. (4) All Wards Lathes are constructed so they can be driven with the motor below or behind, with a line shaft or jack-shaft. (5) 4-step pulleys are included with lathes. (6) When lathe and motor are purchased together, correct motor pulley and belt are included. (7) Pulley is carried *between* bearings to insure maximum support and long life—no "wobble." (8) Belts can be changed on pulley steps for various speeds without removing a guard. Guard is part of headstock. Spindles are easily removed for changing belts when necessary. (9) Tool rests are adjustable up, down or sideways. (10) All but the Light Duty Lathe have Index Locking Devices on the headstock pulley. Two rows of positions are marked—one of 30 divisions, the other of 8. (11) All Wards Lathes except the Light Duty are adaptable for metal turning. Use Jack Shaft (see Workshop Page) for additional speeds, and for metal turning. (12) Necessary wrench and complete instructions for operating are included with each lathe.

Wards Powr-Kraft production machi
are built to industrial standards for fac
production work. They are designed for e
venience of operation. Adjustments are e
accurate and practical. Capacities are l
allowing adaptation to many jobs that
merly required larger and more expen
equipment. Continuous rigid inspection
operating tests maintain our exacting
quirements of quality and accuracy. T
will save you many dollars in initial cost
In operating and maintenance expense.

Wards Hobbyist and Beginner machi
are constructed as precisely as our Pro
sional models. They offer outstanding
formance at low prices.

Own and enjoy your Powr-Kraft t
now—pay for them while you use th
Or, better still, let them pay for themse
by selling the things you make. Wards T
Payment Plan makes this possible for yo
$20 purchase can be made for only $1
month. Or own a complete workshop—
can buy up ro $310 for only $16 a mo
For full details on this convenient way to
see the Inside Back Cover of this Catalo

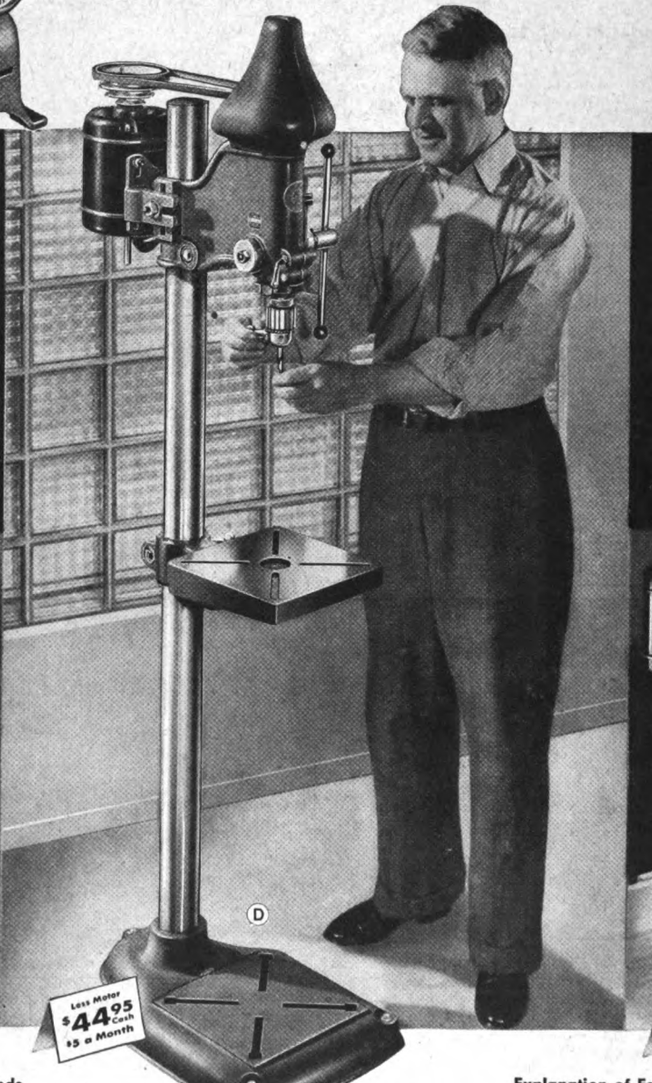
WARDS POWR-KRAFT DRILL PRESSES

See Inside Back Cover For Time Payment Plan



Less Motor **$16.95** Cash
$2.50 Month

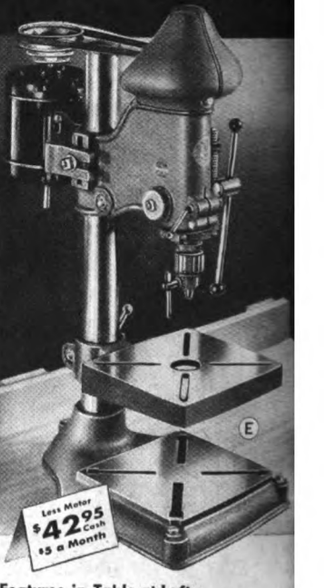
Less Motor **$29.95** Cash
$4 a Month



Less Motor **$44.95** Cash
$5 a Month

ALL WARDS DRILL PRESSES HAVE THESE FEATURES:

(1) Cast iron heads ribbed for strength, rilled to fit column accurately—adjustable—easy-swing. (2) Table surfaces are machined and ground. (3) Cast iron tables, bases and column bracket. Both have diagonal slots for holding work, jigs, etc. (4) Columns are ground and polished—rigid and accurate. (5) 6-splined, ⅝-in. spindles are automatically centered in pulley. (6) Levers move spindles through rack teeth and pinion gears—no play or backlash; adj. spring return. (7) Safety guards. (8) Adj. depth gauges. (9) Use with standard motors—See Wards motor pages.



Less Motor **$42.95** Cash
$5 a Month

Choose A Wards Powr-Kraft Drill Press To Suit Your Needs

	(B) Light Duty Regular Speed	(C) Heavy Duty* Regular Speed		(D) Production* Regular Speed		(E) Production* Slow Speed	
	Bench Model	Bench Model	Floor Model	Bench Model	Floor Model	Bench Model	Floor Model
CAPACITY—Drills to Center of Circle	14¼-in. Diameter	15-In. Diameter		15-In. Diameter		15-Inch Diameter	
Spindle Travels	3½-Inches	3½-Inches		4 Inches		4 Inches	
Distance Chuck to Table	11-Inches	13½-In.	42-In.	13-In.	43-In.	13-In.	43-In.
Distance Chuck To Base	14-Inches	17¼-In.	48-In.	18½-In.	48½-In.	18½-In.	48½-In.
BEARINGS—Drive Pulley	1 Self-Lub. Bronze	2 New Departure Ball		2 New Departure Ball		2 New Departure Ball	
Chuck Spindle	1B B.Thrust;2-Bronze	1 N.D. Ball; 1 Bronze		2 New Departure Ball		2 New Departure Ball	
13 SPEEDS	700 to 4000 R.P.M.	600 to 5200 R.P.M.		600 to 5200 R.P.M.		425 to 2030 R.P.M.	
SIZE OF 3-JAW CHUCK	0 to ½-in.	Jacobs Key—1/16 to ½-in.		Jacobs Key—0 to ½-in.		Jacobs Key—0 to ½-in.	
COLUMN DIAMETER	1⅝-in.	2-In.		2¾-In.		2¾-In.	
WORK TABLE—Machined Tilts	7½ by 7½-In. No Tilt	8 by 9-In. 45° Either Way		10 by 10-In. 45° Either Way		10 by 10-In. 45° Either Way	
BASE—Work Surface	8 by 8-In.	9 by 9-In.	10 by 10 In.	10 by 10-In.		10 by 10-In.	
OVERALL HEIGHT	33-In.	40-In.	71-In.	43½-In.	72-In.	43½-In.	72-In.
ORDER—Drill Press No.	484A627	184A593	184A591	184A621	184A623	184A585	184A586
Ship. Wt. and Price	57 lbs.$16.95	80 lbs. $29.95	107 lbs. $32.95	110 lbs. $39.95	137 lbs. $44.95	119 lbs. $42.95	140 lbs. $47.95
Drill Press and Motor	384A629	184A594	184A590	184A622	184A624	See motor page for correct Wards Motors	
Ship. Wt. and Price	94 lbs.$26.75	114 lbs. $39.35	141 lbs. $42.35	144 lbs. $49.35	171 lbs. $54.35		

*In (C)(D)(E) left column has Bench Model selling prices; right column, Floor Model.

Motors—furnished with all Drill Presses listed with motor at left is Number 483 A 9861 described fully on Motor Page.

Pulleys and Belts—all Drill Presses except No. 627 supplied with V-Belt, 4-step motor pulley. These supplied with No. 627 when ordered with motor.

No. 33 Morse Taper—nose is used on every Drill Press except the Light Duty, which is ½-in. 24-thread.

Spindle Pulley—Mounted independently of spindle—eliminates strain. Seats for pulley bearings machined directly in head casting.

Explanation of Features in Table at Left:

New Departure Ball Bearings—precision type, all sealed against dirt and grit, lubricated for life—need no further attention—have high radial and end-thrust capacity.

Self-Lubricating Bronze Bearings—special process—absorb oil easily—assure long-lasting, even lubrication—require only occasional oiling.

No. 33 Morse Taper Nose—takes standard Drill Press taper fit chucks or accessories.

½-in., 24-Thread Nose—takes standard chucks or accessories with correct diameter and threading.

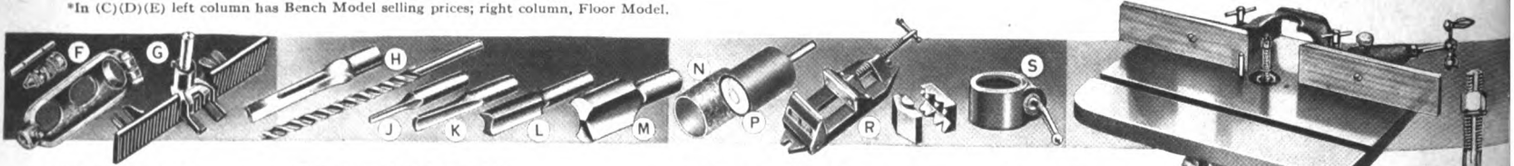
Jacobs Key Chucks—widely recognized as the best quality obtainable—the standard for accurate work.

Quill Bearing Surfaces—these are precision bored in the sturdy cast iron housing which is an integral part of the head casting itself. There are 3 of these bearing surfaces in a Wards Drill Presses except the Ligh Duty which has 2—adequate for th smaller size.

Co-ordinating Dual-Wedge Quil Locks—ball handle tightens or loos ens two clamp wedges at once—n scoring no distortion, positive action These locks are used on tables an heads for all models and on quill fo all except the Light Duty which use a T-lever acting directly on quill.

Depth Gauges—All Wards Drill Presses are equipped with graduate collar to show depth of hole. Collar i adjustable to 0 regardless of position of quill. All except No. 484 A 627 an 384 A 629 also have adjustable stop for duplicate drilling.

Machined Bases—machined an ground surfaces can be used for larg dimension work in place of work table



Bracket for Mortising

(F) Collet chuck, drift pin and cast iron holder. Used on Drill Press for hollow chisels and bits. Ship. wt. 2 lbs. 10 oz.
84 A 8950—Fits Drill Presses 593, 591..... **$2.45**
84 A 8951—Fits Drill Presses 621, 623..... **2.75**

Cast Iron Holder Only. Fits Drill Press 627 only. No collet chuck needed.
84 A 8952—Wt. 2 lbs.. **$1.79**

Mortising Hold Downs

(G) Fastens to table. Holds work during up stroke. Raises or lowers on vertical rod in casting at back. For stock up to 4 in.
84 A 8898—Wt. 6 lbs. **$1.75**

(H) Hollow Chisels and Bits

For making mortise and tenon joints with a drill press. Bit revolves inside hollow chisel and travels slightly in advance of hollow chisel. Bit drills a round hole—chisel trims corners to make a square hole. Finest tool steel, (not ordinary carbon steel) heat treated to hold a keen edge. **State choice of ¼, ⅜, or ½-in. size.**

Article No.	Item	Wt.	Each
84 A 8860	Chisel	2 oz	$1.35
84 A 8861	Bit	2 oz	1.15

Routing and Mortising Cutters

Finest quality high speed cutters—bite into the toughest wood. Tempered and accurately shaped to do a clean cutting job. 3/16-in. shanks. Use with drill presses and carvers for routing operations, inlay work, grooving and mortising.
84 A 641—Ship. wt. each 1 oz. **State size.**

Key Letter	(J)	(J)	(K)	(K)	(L)	(L)	(M)
Size, In.	1/16	1/8	3/16	1/4	3/8	1/2	5/8
Each	59c	61c	63c	65c	69c	79c	95c

Drill Press Sanding Drums

(P) Expanding rubber sanding drum for sanding straight or irregular surfaces. 3-in. wide rubber cushions are mounted on unthreaded spindles, in such a manner that work can be sanded flush with the table, whether or not table has center hole. Both fit all Wards Drill Presses.
84 A 582—2 3/16-in. diam., 1 3/32-in. spindle. Use Sanding Sleeve 84 A 703. Wt. 1 lb. 8 oz..... **$1.15**
84 A 602—1 5/8-in. diam., ½-in. spindle. Use Sanding Sleeve listed below. Ship. wt. 1 lb..... **65c**

Drill Press Sanding Sleeves

(N) Fits over Sander Drum No. 84 A 602 above. Fine, medium or coarse grit. **State grit.**
84 A 603—Ship. wt. 1 oz. Ea.. 9c; 6 for..... 49c

(R) **Drill Press Vise**—For Drill Press table. Holds small work. Length 8¼ in. 2⅜-in. jaws—open 3 in. 2 extra jaws included for irregular work.
84 A 8858—Ship. wt. 4 lbs..... **$1.89**

(S) **Drill Press Collar**—For any Drill Press with 2¾-in. column. Locks on column—supports head or table when clamp is released.
84 A 8824—Ship. wt. 3 lbs. 8 oz..... **$1.75**

Heavy Duty Production Shaper

$22.45 Cash

- **Stationary 14 by 18-in. cast iron table slotted for miter gauge.**
- **Self-centering, Tapered Spindle Adaptors—Run either direction.**

Makes approximately 24,750 cuts per minute at recommended speed of 8250 R.P.M. No need to remove spindle to change cutters—3/16 or ½-in. adaptors changed by releasing one nut. Spindle housing is a part of frame. Adaptor held in perfect alignment by alloy steel drive pin and threaded adaptor collar. Adaptors keyed for special washer. Spindle travels 1 in.—one turn of ball crank raises or lowers spindle 1/20-in.—for more accurate setting. Table stationary. Fence guide has two parallel faces, both adjustable and always on parallel plane. One side of fence moved by micrometer screw feed adjustment. Shaper cutters are listed below and on next page. Starting pin and Adaptor wrench included. Baked enamel finish. Ht. overall 11½ in. With 2¼-in. pulley
484 A 865—Shaper only. Ship. wt. 51 lbs. *Mailable*..... $22.45
384 A 868—With No. 9844 ½-H.P. Cap. 3450 R.P.M. Motor. 5-in. V-Pulley and 31 in. V-Belt. Ship. wt. 92 lbs. *Mailable*..... $40.65
84 A 8881—Set of 7 Shaper Cutters. Chrome Vanadium tool steel, 5/16-in. bore. Can make 50 to 60 designs. Six depth washers. **Shipping weight, set,** 2 lbs. 4 oz. *Mailable*. Set..... $3.75

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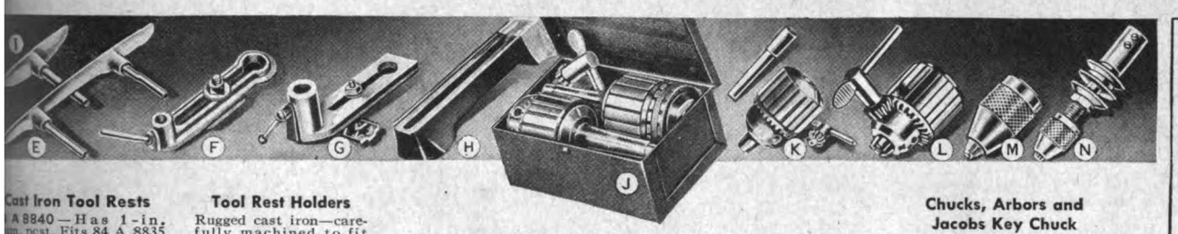


Choose A Wards Powr-Kraft Lathe To Suit Your Needs

	(B) Light Duty—$ .45	(C) Regular Duty—$14.95	(A) Heavy Duty—$23.45	(D) Production Work—$35.95
PACITY—Swing over bed	8 by 27 in.—10 in. over 4 in. bed gap	11 by 32 in.	11 by 37 in.	14 by 38 in.
TBOARD	Built-in Grinder	Turning (¾-in. unthr. spindle)	Turning, (¾-in. unthr. spindle)	Turning, 1⅛"-in.—7 thr. (L.H.)
NDLE BEARINGS	Two Self-Lubricating Bronze, & 1 Ball End Thrust Bearing	2 Self Lubricating Bronze & 1 Ball End Thrust Bearing	One Self Lubricating Bronze One New Departure Ball	Two New Departure Ball
S—Length	37½ in.—Ground Flat Ways	44 in. V-and-Flat Ways	49⅜ in. V-and-Flat Ways	53½ in. V-and-Flat Ways
ADSTOCK SPINDLE—Diam	½-In. Unthreaded	¾ in.—16 Threads. ⅜ in. hole	¾ in.—16 Threads. ⅜ in. hole	1⅛ in.—7 Threads. 9/16 in. hole
STOCK QUILL—Diam	½-In.	1 3/16-In.	1 3/16-In.	1¼-In.
oth Take Morse Taper	No	No. 1	No. 1	No. 2
DEX LOCKING DEVICE	None	30 and 8 Positions	30 and 8 Positions	30 and 8 Positions
elf-Ejecting Center	No	Yes	Yes	Yes
	84 A 636—Lathe with Built-In grinder. Wt. 28 lbs. ..... $6.45 84 A 637—Lathe and Sanding and Drilling Attachments listed low. Shipping wt. 33 lbs. ..... $9.25 84 A 8823—Sanding Attachment only, 6-in. disc, steel table (tilts 45°), adj. gauge. Wt. 3 lbs. 12 oz. ..... $2.15 84 A 8849—Drilling Attachment only for 484 A 636 Lathe. ½-in. 3-jaw drill chuck attaches to headstock spindle. Shipping weight 13 oz. 89c	484 A 889—Lathe. Ship. wt. 60 lbs. ..... $14.95 384 A 909—Lathe and No. 9843 Motor (see motor page) No. 9974 pulley, 48-in. V-belt. Wt. 97 lbs. $31.45	484 A 899—Lathe. Ship. wt. 67 lbs. ..... $23.45 384 A 900—Lathe and No. 9843 Motor (see motor page), No. 9974 pulley, 48-in. V-belt. Wt. 108 lbs. $39.95	184 A 607—Lathe. Ship. wt. 121 lbs. ..... $35.95 184 A 609—Lathe with No. 9842 Motor (see motor page), No. 9989 pulley. Ship. wt. 166 lbs. $53.45

Explanation of Features in Table at Left:

New Departure Ball Bearings—are deep-grooved, sealed against dirt, lubricated for life—need no further attention—have high radial and end thrust capacity. **Self-Lubricating Bronze Bearings**—On headstock spindle—absorb oil easily—assure long-lasting, even lubrication. **V- and Flat-Ways**—are machined in pairs on head and tail stocks to fit V-and flat-ways machined on bed. This method assures perfect alignment of these three parts in any position—head and tail stock clamps provide wedging action on V-ways. **Belt Guards** protect operator, cover belt top and front. **Motors**—Wards lathes are driven with standard motors. Use Wards motors for complete satisfaction. They are shown and described in full on motor pages. Refer to this page for information on motors listed in table at left.



Cast Iron Tool Rests

A 8840—Has 1-in. m. post. Fits 84 A 8835 lder (right) and 184 A 7 Lathe (above). **State** e wanted.
4-in. size. Ship. wt. 2 lbs. 65c
12-in. size. Ship. wt. 3 lbs. 95c
24-in. double post. Ship. wt. 8 lbs. $2.15

A 8841—Post ⅝-in. am. Fits 84A8836 Holder ight) and Lathes 484 A 9 (above) and 484 A 899 table above). **State size.**
12-in. size. Ship. wt. 2 lbs. 4 oz. 95c
18-in. double post. Wt. 4 lbs. $1.48

Tool Rest Holders

Rugged cast iron—carefully machined to fit lathe bed. Attachments furnished for fastening to bed. **State article no.**

(F) **84 A 8835**—Tool Rest Holder complete. Hole for tool rest post 1-inch diameter Fits No. 184 A 607 Lathe. Ship. wt. 7 lbs. $1.48

(G) **84 A 8836**—Tool Rest Holder complete. Hole for tool rest post ⅝-in. diameter. Fits No. 484 A 889 and 484 A 899 Lathes. Shipping weight 3 lbs. 4 oz. 69c

(H) **Lathe Bed Extension For Longer Work For Gap-Bed Lathe 484 A 636.** Increases utility of your lathe. Makes distance between centers 38-in. Cast iron—rigid as bed itself. Milled ends squared, ways ground to fit. Centers will line up, tailstock slides freely over joint.
484 A 634—Ship. wt. 6 lbs. $1.19

For Lathe 484 A 889—(Not Shown.) Makes distance between centers 50-in. Cast iron—foot and ways like lathe.
484 A 737—Ship. wt. 13 lbs. $3.98

Jacobs Armature Chuck Kit

(J) Designed to hold armature shafts during reconditioning. Includes Armature Driving Chuck, Center Rest Chuck—stationary bronze jaws act as bearings. Both have ¼ to ⅜-in. capacity. No. 2 Morse tapers. Use also for drilling, grinding, etc.
84 A 8845—Wt. 7 lbs. $19.95

(K) **84 A 787**—**Jacobs Chuck and Arbor.** Cap. 0 to ½-in. arbor adapts chuck to No. 2 Morse taper. Wt. 2 lbs. 10 oz. $6.95

Chucks, Arbors and Jacobs Key Chuck

(L) Improved precision type. Found on most industrial equipment. Hardened and ground jaws grip like a vise. Capacity 1/16 to ½-in. Fits any ⅝-in. diam. spindle. 16 threads per inch. With key.
84 A 8850—Ship. wt. 1 lb. 4 oz. ... $5.25

3-Jaw Chucks

(M) Same as with arbor above. Threaded for ½-in. spindle, 24 threads per in.
P84 A 8890—**State size.** Wts. 3, 9 oz. ¼-in. ..... 35c ½-in. 59c

Motor Arbors

(N) For ½-in. shafts. Holds wheels with ½-in. arbor holes, any thickness up to ¾-in. Complete with 3-jaw chuck.
84 A 9977—¼-in. cap. Wt. 1 lb. 6 oz. .. 79c
84 A 9976—½-in. cap. Wt. 1 lb. 7 oz. .. 98c



4-Jaw Chucks With Back Plates.

Hardened steel, reversible jaws work separately grip any shape. 4-in. diam. Wrench incl.
A 8907—For 607 Lathe or any 1⅛-in. threads to inch spindle. Wt. 4 lbs. ... $5.98
A 8803—For 889 and 899 or any ¾-in. pindle 16 threads to in. Wt. 3 lbs. 10 oz. $4.98

Dynamically Balanced Face Plates.

Heavy cast metal, well finished, balanced.
A 8833—3½-in. diam. Fits ½-in. unthreaded spindle, 484A636 Lathe. Wt. 12 oz. 75c
A 8831—3½-in. diam. Fits ¾-in. bore, 16-hread; 889, 899 Lathes. Wt. 15 oz. $1.19
A 8832—5⅞-in. diam. Fits ¾-in. spindle, thr.; 889, 899 Lathes. Wt. 3 lbs. 4 oz. $1.39
A 8830—5⅞-in. diam. ¾-in. bore 16-thread; 89, 899 Lathes. Wt. 3 lbs. 4 oz. $1.75
A 8834—5⅞-in. diam. 1⅛-in. bore, 7-hread (rt. hand); 607 Lathe. Wt. 3½ lbs. $1.75
A 8837—5⅞-in. diam. 1⅛-in. bore, 7-hread (L.H.); 607 Lathe. Wt. 3½ lbs. .. $1.75
A 8844—3½-in. diam. 1⅛-in. bore (Rt. and) 7 thread; 607 Lathe. Wt. 1 lb. ... $1.19

Morse Taper Accessories for Lathes

(C) **Tailstock Cup Centers.** For wood turning. Hardened steel. Removable points. Morse Taper Shank. Wt. 8 oz.
84 A 8816—No. 2 Shank .. 65c
84 A 8817—No. 1 Shank ... 60c

(D) **Screw Centers.** Accurate. Removable screw. Morse Taper Shank. Wt. each, 8 oz.
84 A 8818—No. 2 Shank ... 75c
84 A 8819—No. 1 Shank ... 60c

(E) **Headstock Spur Centers.** For wood turning. Hardened steel. Removable point. Morse Taper shank. Wt. each 8 oz.
84 A 8814—No. 2 Shank ... 65c
84 A 8815—No. 1 Shank ... 60c

(F) **Jacobs Chuck Lathe Center.** Hardened steel. Fits Jacobs Chuck No. 8850. No. 2 Morse Taper Shank.
84 A 8822—Ship. wt. 10 oz. 89c

Chuck Centers With Chuck

(G) Ground for perfect fit. ½-in. No. 8890 Chuck (above) included. Morse Taper Shanks. Ship. wt. each, 1 lb. 8 oz.
84 A 8820—No. 2 Shank .. $1.25
84 A 8821—No. 1 Shank .. 1.19

60° Centers

(H) Hardened steel. Accurately machined and ground. With Morse Taper Shank. Shipping wt. each 8 oz.
84 A 8812—No. 2 Shank .. 65c
84 A 8813—No. 1 Shank ... 60c

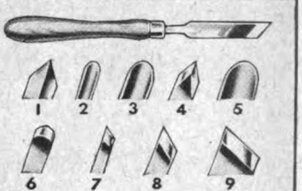
(J) **Wheel Arbors.** For mounting Scratch Brush, grinding or buffing wheels on headstock or other Morse Taper tools. With flanges, nuts to hold ½ to 1-in. thick wheel. Wt. ea. 12 oz.
84 A 8808—No. 2 Shank ... 80c
84 A 8807—No. 1 Shank 69c

Lathe Accessories

(L) **Compound Rest for Metal Turning.** Swivel base graduated to 180°, can be locked at any angle. Has longitudinal and transverse feed handles calibrated in thousandths of an inch. One turn of either handle equals only 1/10-in. travel. Micrometer gauge at handles. Longitudinal feed 6½-in.; transverse feed 7-in. All ways machined and gibbed for take-up. Tool holder included. Bits below. Ship. wt. 23 lbs.
484 A 8800—For 184 A 607 Lathe $19.95
484 A 8801—For 484 A 889, 899 Lathe. 19.95

(M) **High Speed Steel Bits.** Heat treated to hold edge. Set includes round nose turning tool; right and left hand turning tool; right and left hand facing tool; threading tool. Fit tool holder of compound rests above. Size is 3/16 by 1½-in. Ship. wt. 1 lb.
84 A 8809—Set of 6 Bits $1.10

(K) **Miter Gauge.** Fits grooves in tables on Bench Saws No. 885, 660.
84 A 8825—Shipping weight 14 oz. 98c



TURNING CHISELS

Master Professional

Full length professional size tapered blades of finest forged alloy tool steel, hardened and tempered. Ground and highly polished (not plated) won't chip at edge. Stay sharp longer than ordinary steel chisels. Selected maple handles 9 in. long. Blade tangs driven into handles—can't come loose. 1-in. gouge more than 18¼ in. overall. Ship. wt. each 14 oz.
(1) 84 A 836—⅝-in. Parting Tool $1.45
(2) 84 A 837—¼-in. Gouge 1.55
(3) 84 A 838—⅝-in. Gouge 1.65
(4) 84 A 841—½-in. Spear Point 1.25
(5) 84 A 840—1-in. Gouge 1.85
(6) 84 A 844—½-in. Round Nose 1.25
(8) 84 A 847—½-in. Skew 1.25
(9) 84 A 848—1-in. Skew 1.45

Set of 8 Chisels. One each of the above. Packed in an attractive carton.
84 A 862—Ship. wt. 6 lbs. 6 oz. .. $10.95

Master Quality

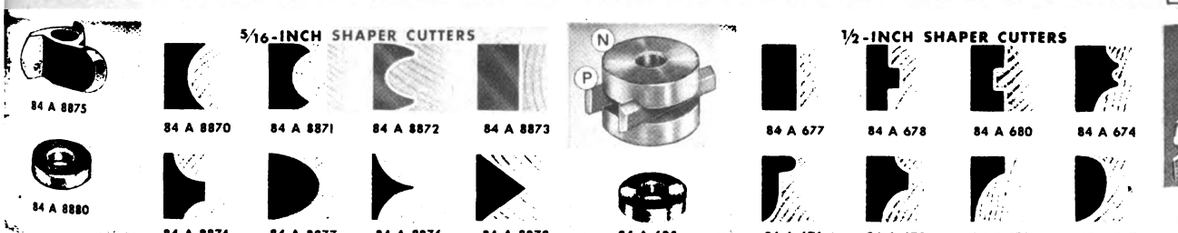
Crucible tool steel, hardened and tempered to take a keen edge. Polished blades with 8-in. hardwood handles. Ship. weight each, 12 oz. *Available.*
(1) 84 A 722—Parting Tool 55c
(2) 84 A 729—¼-in. Gouge 55c
(3) 84 A 732—½-in. Gouge 59c
(4) 84 A 730—½-in. Spear Point .. 55c
(5) 84 A 721—¾-in. Gouge 85c
(6) 84 A 726—½-in. Round Nose .. 55c
(7) 84 A 733—¼-in. Skew 53c
(8) 84 A 720—½-in. Skew 55c
(9) 84 A 728—1-in. Skew 79c

Set of 5 Chisels. (1), (3), (5), (7) and (8) above. In attractive carton. Order a set with your lathe.
84 A 734—Ship. wt. 2 lbs. 8 oz. $2.89

Lakeside Quality

Carefully tempered Vanadium steel.
Set of 4 Chisels. Includes parting tool, ½-in. gouge, ¼-in. skew, ½-in. skew in canvas roll. 8-in. Hardwood handles.
84 A 8915—Ship. wt. 1 lb. 11 oz. .. $1.89

USE YOUR CREDIT FOR COMPLETE DETAILS SEE INSIDE BACK COVER



5/16-INCH SHAPER CUTTERS

½-INCH SHAPER CUTTERS

Depth Washers—Asst. diam. for 5/16-in. bore. Cutters to regulate cut depth. Set of 6. Ship. wt. 2 oz.
84 A 8880 .. 45c

5/16-in. Shaper Cutters—Chrome-vanadium steel. Use on Shapers or Drill Presses. Sketches show cuts made with single cutter—matched so many combination cuts can be made. Order by Art. No. and **State Code Letter and Width**. Wt. 1 oz. ea. Choice .. 59c
84 A 8879—Same as 84 A 873 except 1-in. wide, 1¼-in. diam. Ship. wt. 3 oz. 95c
Set of 24 Cutters—1 of each cutter, also 6 asstd. washers.
84 A 8882—Set in covered wood box with pegs. Wt. 1 lb. 6 oz. $11.75

Code	Width	Diam.	Code	Width	Diam.	Code	Width	Diam.	Code	Width	Diam.
	84 A 8870			84 A 8873			84 A 8871			84 A 8876	
A	.177 in.	.95 in.	A	.125 in.	.95 in.	A	.221 in.	.994 in.	A	.282 in.	1.18 in.
B	.264 in.	.95 in.	B	.156 in.	.95 in.	B	.442 in.	1.03 in.	B	.344 in.	1.24 in.
C	.354 in.	.95 in.	C	.187 in.	.95 in.					84 A 8874	
D	.442 in.	.95 in.	D	.250 in.	.95 in.		84 A 8875			.442 in.	1.25 in.
	84 A 8872			84 A 8877		A	.177 in.	1.02 in.		84 A 8878	
A	.303 in.	1.09 in.	A	.194 in.	1.13 in.	B	.264 in.	1.06 in.	A	.177 in.	1.12 in.
B	.388 in.	1.16 in.	B	.260 in.	1.20 in.	C	.354 in.	1.09 in.	B	.282 in.	1.21 in.
						D	.442 in.	1.13 in.			

Grind Your Own Shaper Knives

Buy 2 collars; then 2 blanks (listed below) for each shape desired; grind to correct shape. ½-inch bore.
(N) **84 A 8802—Collars.** Wt. 4 oz., 2 for $1.25
(P) **84 A 8810—Blanks.** Ea. 2½ by 5/16-in. Ship. wt. ea. 1 oz. **State width.**
½-in. Ea. .. 75c; 2 for .. $1.39
1-in. Ea. $1.00; 2 for .. 1.85

Depth Washers

For ½-in. cutters shown above. Assorted diameters to regulate depth of cut. Ship. wt. 6 oz.
84 A 685—Set of 6 ..... 52c

½-in. Bore Shaper Cutters of Special Alloy Steel (Not Ordinary Case Hardened). Heat-treated and accurately machined. Grinding of proper clearance at heel of cutter eliminates drag and prevents burning. Cutting edges have correct rake angle for true shaving cut. Can be resharpened by grinding across face of cutter with flat wheel. Use on any shaper or Drill Press fitted for ½-in. cutters. Cutters shown above have 1¾-in. max. diam.—max. width cut 1-in. Each comes in metal-top-and-bottom cardboard box for safe-keeping. *Order by article number.* Shipping weight each 10 oz. Your Choice $1.15

Some Uses For Shaper Cutters

Use 84 A 680 and 84 A 678 for making tongue and groove joints. 84 A 672 has ¼-inch radius on one side, ½-inch radius on other side. 84 A 675 is the matching cutter for making drop leaf table tops.



Drill Press Attachments

Make Your Drill Press Into a Shaper. Use shaper fence, adaptor and hold down listed below and shaper cutters listed at left. Not for 484 A 627 or 384 A 629 Drill Presses.

(R) **Shaper Guard and Fence.** Similar to fence included with Shaper No. 484 A 865 listed on previous page.
84 A 8851—Ship. wt. 4 lbs. $2.98

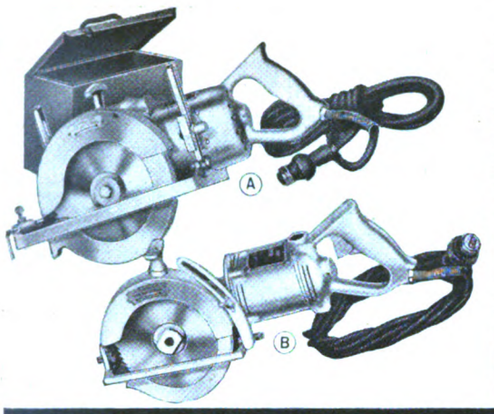
(S) **Adaptors For Shaper Cutters.** Fit Drill Presses No. 184 A 621, 184 A 623, 184 A 591 and 184 A 593. Ship. wts. 4 oz. ea.
84 A 9992—Adaptor to fit 5/16-in. bore Shaper Cutters 79c
84 A 9993—Adaptor to fit ½-in. bore Shaper Cutters 79c

(T) **Hold Down for Shaper.** Holds work against table. Long springs provide large area of adjustment. Clamps to table. Can also be used on table saw and jointer.
84 A 833—Ship. wt. 4 lbs. $2.45

Equip your Shop with Wards Powr-Kraft Tools.

CBA WARDS 1097

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PORTABLE ELECTRIC SAWS

- **Faster sawing of wood, composition, plastics, soft metal.**
- **7 sealed SKF ball bearings** • **Geared drive on 7, 8, 9-in.**

Use anywhere there's an electric outlet. Adj. for depth. Double pole trigger switch. Robbins and Myers 60-cycle or less A.C.-D.C. 110–120-volt motor. Crucible steel combination rip, cross-cut blade. Automatic telescoping guards meet State Safety Codes. Wrench, grease gun, 10-ft. 3-wire cord, plug, steel carrying case.

6-in. Size—For all light work. Patented beveling device sets to 45°; Heat-treated and tempered worm gear drive. ¾-in. square arbor.

7, 8, and 9-in. Sizes—Patented beveling device sets to 60°; helical and spiral-bevel stress-proof gears; built-in sawdust blowers. 1-in. square arbor saws—extra blades—abrasive discs. **Shipped from Factory** in Northern Indiana in 5 additional days. *Mailable.*

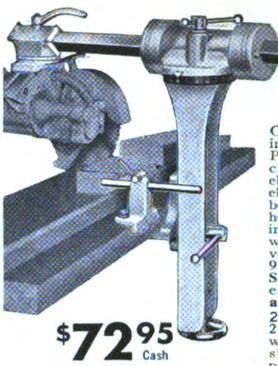
Article No.	Blade	Depth Cut	Speed	H.P.	Net wt	Ship. wt.	Cash
(B) M284A8939	6-in.	1⅞-in.	3750 R.P.M.	½	11½ lbs.	20 lbs.	$62.95
(A) M284A8940	7-in.	2⅛-in.	3600 R.P.M.	½	21 lbs.	32 lbs.	79.95
(A) M284A8941	8-in.	2½-in.	3400 R.P.M.	¾	27 lbs.	42 lbs.	99.95
(A) M284A8942	9-in.	3¾-in.	3250 R.P.M.	¾	28 lbs.	43 lbs.	114.95

M284A8936—Extra Combination Blades. Square arbor. **State size.**

Size	No. Teeth	Sq. Arbor	Wt.	Each
6-in.	60 teeth	¾ in.	10 oz.	$2.95
7-in.	62 teeth	1 in.	16 oz.	3.75
8-in.	64 teeth	1 in.	24 oz.	3.95
9-in.	68 teeth	1 in.	36 oz.	4.55

M284A8937—Abrasive Disc. Square arbor. **State size.**

Size	Sq. Arbor	Wt.	Each
6-in.	¾ in.	3 lbs.	$1.45
7-in.	1 in.	3 lbs.	1.65
8-in.	1 in.	3 lbs.	1.89
9-in.	1 in.	3 lbs.	2.25



ARM FOR PORTABL ELECTRIC SAWS

Converts 8 or 9-in. saws at into production, radial-type. Portable, easily set up. For cross-cut, mitre—straight or el. 44-in. machined steel arm els 28 in. on 8 grease-sealed bearings in cast iron mac head—swivels on column gu index plate graduated 60° e way. Cast iron column ad vertically by handwheel—tr 9 in. Cuts work 25-in. **Shipped from Factory** in N ern Indiana in 5 days. Give **and serial no. of Saw.**

284A8935—Arm, complete 2 by 14 by 48-in. Work with 1 by 1½-in. straight stop, hold-down bracket for ping; less saw. Wt. 136 lbs. $7

284A8934—Same but no Plank or stop. Wt. 117 lbs. $6

$72.95 Cash
COMPLETE LESS SAW

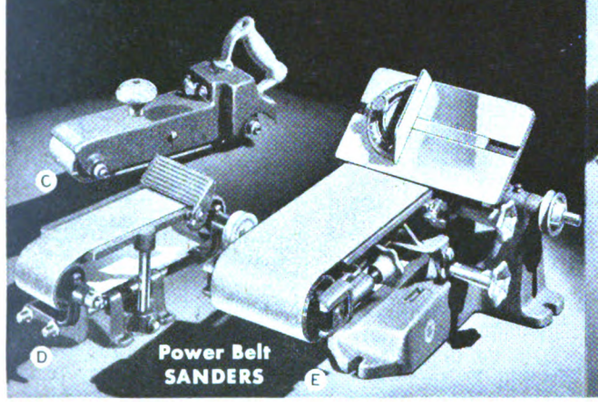
WARDS

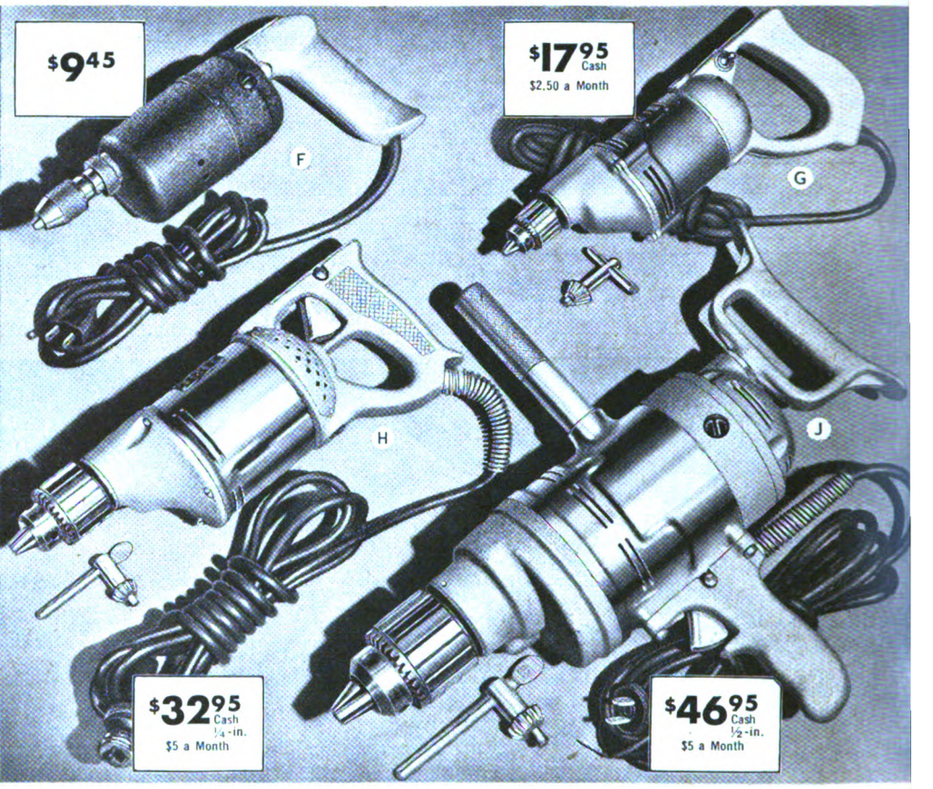
POWR-KRAFT

ELECTRIC DRILLS

Buy As You Need—Pay As You Earn

See Inside Back Cover For Payment Plan





Flexible Shaft Sander $11.45

Ⓒ Pistol grip handle. Rubber covered pulleys. Bronze bearings. Length 16¾ in. 5/16-in. 24-thread. Fits Flexible Shaft 584A702. Use 84A8838 Adaptor with 584A881 Flexible Shaft and 584A738 Extension. Operate at 1750 R.P.M. with ¼ or ⅓ H.P. motor. 1 med. grit 3 by 29½-in. belt for wood and plastics.

584A879—Ship. wt. 11 lbs. **$11.45**

84A8838—Adaptor ½-in. 24-thread inside, 5/16-in. outside for using above Sander with 584A881 Shaft. Shipping weight 3 oz. **59c**

84A781 Same as No. 84A780 at right except for metal. Size 3 by 29½ in. **State choice of coarse, medium or fine grit.** Wt. 8 oz. Ea.... **39c**

3-Inch Belt Sander $5.95

- **4x8-in. Table**
- **29½-in. Belt**

Ⓓ Removable guide fence adjustable to 45°. Rubber covered pulleys grip belt. Belt tension adjustment. With 2¼-in. V pulley. Use 1½-in. V pulley on ⅓ or ¼-H.P., 1750 R.P.M. motor. Length overall 13⅛ in. Height 7½ in. 1 Garnet medium grit 3 by 29½-in. belt for wood and plastics. Wt. 13 lbs.

584A877 $5.95

84A780—Endless Cloth Back Garnet Belt. For wood and plastics. 3 by 29½-in. Fits 879 and 877 Sanders. **State coarse, med. or fine grit.** Wt. 8 oz. Each..... **35c**

6-Inch Belt Sander $23.95 CASH

- **Carriage swings 90°**
- **Table with miter gauge**

Ⓔ 6½ by 11-in. table tilts 15° one way, 45° other way on *trunnion*. Locking support for use at any angle. Belt table can be raised or lowered. Sanding cushioned by two rubber-covered pulleys—prevent slipping. Bronze bearings. Adjustable belt tension. Length 22¾ in. Height to table when horizontal 8½-in. 2½-in. V-pulley. 6 by 44½-in. med. grit garnet belt for wood, plastics. Runs at 1400 R.P.M.

484A654—Wt. 61 lbs. **$23.95**

Cloth Back Garnet Belts—For wood. 6 by 44½-in. for above Sander. **State coarse, med., fine grit.**

84A790—Wt. 12 oz. Ea. **79c**
Same as No. 84A790 above except for metal. **State coarse, medium or fine.**

84A782—Wt. 12 oz. Ea. **89c**

¼-in. Utility Drill

Ⓕ • **For Light Duty Work.**

Sturdy Universal Motor. Operates within ¾-in. of a corner. Self-lubricating bronze bearings. Double reduction gear. Self-tightening 3-Jaw chuck holds drills up to ¼-in. Handy on-off switch set in pistol grip handle. For 110–120 volt 60-cycle or less A.C. or D.C. Underwriters' Approved 7-foot rubber covered cord and unbreakable rubber plug. Runs at 1500 R.P.M. Ship. wt. 4 lbs. 12 oz.

84A1030—Each..... **$9.45**

¼-In. Pistol Grip, General Purpose Drill Power Stepped Up 35%

Ⓖ Has more nationally-known features than any Electric Drill we know of—features that mean greater efficiency, smoother operation, longer life. General Electric universal motor develops full 35% more power than our former model. New Departure ball bearings mean smooth operation—long life. Precision Jacob's Key Chuck takes straight shank drills up to ¼-inch. Highest quality heat-treated Chrome Vanadium steel gears. New modern de housing—improved pistol-grip handle with bui on-off switch. Underwriters' Approved 8-foot rub covered cord and unbreakable plug. For 110- volt 60-cycle or less A.C. or D.C. Runs at 2 R.P.M. with no load—1600 R.P.M. with normal l Fan pulls large volume of air over motor—runs c

84A1024—Shipping weight 5 lbs. 4 oz..... **$17**

Pistol Grip Heavy Duty Drill

- **Extra powerful, rugged, dynamically balanced General Electric universal motors.**
- **Nationally known New Departure *grease-sealed* ball bearings. Jacobs Key chucks.**
- **Specially heat treated chrome vanadium steel gears. Famous Cutler-Hammer switch.**
- **Deliver more power at spindle than many other electric drills of comparable weight.**

Built for production work. Tested at factory against breakdowns at 1500 volts! Cutler-Hammer shock-proof switch locks for continuous running. For 110–120-volt 60-cycle or less A.C. or D.C.

Breast Plate Production Drill

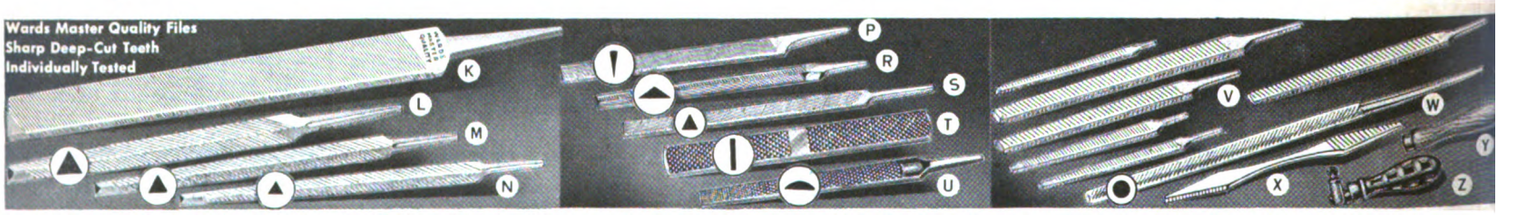
Underwriters' Approved 10-ft., 3-wire rubber c ered safety cord with unbreakable rubber pl Aluminum alloy motor housings. Crackle gray fin See Inside Back Cover for Terms.

(H) Pistol Grip Drills

Article Number	Chuck Size	R.P.M. No Load	R.P.M. Norm. Load	Ship. Wt.	Cash Price
584A1019	¼ in.	2000	1200	9 lbs.	$32.95
584A1032	5/16 in.	1400	1050	11 lbs.	35.95
584A1020	⅜ in.	1300	850	11 lbs.	38.95

(J) Breast Plate Drills

Article Number	Chuck Size	R.P.M. No Load	R.P.M. Norm. Load	Ship. Wt.	Cash Pric
484A1021	¼ in.	550	450	20 lbs.	$46.
484A1022	⅜ in.	480	400	21 lbs.	49.
484A1023	½ in.	425	325	22 lbs.	55.



Wards Master Quality Files

Hardened and tempered, special refined file steel. Teeth cut at correct angle for smooth, fast filing! Individually tested. Mill Files for general purpose, lathe filing, also cross cut saws. Double cut files for machinists, plumbers, etc.

Eclipse Quality Files

(Not shown). Standard quality mill file. Special analysis steel. Single cut. Sharp, long lasting teeth for ordinary filing jobs.

State length.		MASTER Single Cut (K) Mill Bastard Files				MASTER Double Cut Bastard Files				ECLIPSE Single Cut	
		Square Edge		1 Round Edge		Flat		Half Round		Mill	
Length of File	Ship Wt Each Lbs Oz	84A1460		84A1461		84A1462		84A1465		84A1463	
		Each	6 Files	Each	3 Files	Each	3 Files	Each	3 Files	Each	6 Files
6 in	4	14c	77c							8c	42c
8 in	7	17c	96c	20c	58c	24c	68c	33c	93c	10c	53c
10 in	1	25c	$1.37	26c	74c	30c	86c	40c	$1.15	12c	66c
12 in	1 4	33c	1.87			42c	$1.21	52c	1.48		
14 in	1 12	46c	2.64			58c	1.63				

Buy Wards Master Quality Taper Files To Keep Your Saws Sharp

Ⓛ **84A1478—Standard Taper** for crosscut, ripand butcher saws. Refined steel. Wts. 4, 5, 8 oz. **State size.**

Ⓝ **84A1481—Extra Slim Taper** for fine tooth hand, band, or jig saw blades. Special refined file steel. Shipping wts. 3, 4, 5 oz. **State size.**

Ⓜ **84A1480—Slim Taper** for medium tooth hand and band saws. Special refined file steel. Shipping wts. 3, 3, 3, 4 oz. **State size.**

Length In.	84A1478 Each	6 for	84A1480 Each	6 for	84A1481 Each	6 for
5	12c	63c	11c	59c	11c	59c
5½	....	....	13c	71c	....	....
6	15c	82c	14c	79c	14c	79c
7	....	....	17c	95c	17c	95c
8	24c	$1.32	....	....	....	....

Wards Master Quality Files and Rasps

(P) Cross-cut Saw Files

84A1484—Use for circular saws. Single cut. Ship. wts. 7, 12 oz. **State length.**

Length	Each	3 for
8 in.	33c	93c
10 in.	40c	$1.15

(R) Cant Saw Blunt File

84A1486—Single cut teeth. For cross-cut and circular saws. Ship. wts. 3, 5 and 8 oz. **State length.**

Length	Each	6 for
6 in.	24c	$1.32
8 in.	29c	1.58
10 in.	39c	2.15

(S) Slim Blunt Files

84A1483—3-cornered. For filing hand saws. Single cut. Ship. wts. 3, 4 oz. **State length.**

Length	Each	6 for
5 in.	14c	77c
6 in.	17c	93c

(T) Horse Rasp

84A1490—Double Cut. For rasping hoofs. Each tooth individually cut, every File individually tested and inspected at the factory. Ship. wts. 1 lb. 8 oz. 2 lbs., 2 lbs. 8 oz. **State length wanted.**

Length	Each	3 for
12 in.	40c	$1.13
14 in.	57c	1.59
16 in.	75c	2.11

(U) Wood Rasp

84A1468—½-round rasp for wood or brass. Sharp, deep-cut teeth—heat-treated, tempered. Shipping wts. 12 oz. 1 lb. 4 oz. **State length.**

Length	Each	3 for
10 in.	59c	$1.68
12 in.	82c	2.34

Use Your Credit
See Inside Back Cover

Files in Sets

Ⓥ Contains the most popular styles and sizes so you can select the right file for the job—whether it's sharpening your tools or removing metal quickly. Set includes: one each of 8 and 10-in. size mill files; 8-in. flat bastard file; 6-in. taper file; 6-in. slim taper file; and 6-in. extra slim taper file. Ship. wt. set 1 lb. 12 oz.

84A1456—Eclipse Quality. Good serviceable grade for general use around your home, farm or workshop.

Set of 6 files..... **65c**

84A1458—Master Quality. Finest you can buy—Professional quality for master craftsmen. Tested.

Set of 6 files..... **$1.10**

Wards Guarantee Satisfaction. See Back of Catalog

Round Bastard Files

Ⓦ **84A1464—Master Quality. State length wanted.**

For filing saw gullets, enlarging holes, making fillets, filing curved surfaces, etc. Sharp teeth.

Length In.	Max. Diam.	Ship. Wt.	Each	Fo
4	⅛ in	3 oz.	13c	36
6	5/32 in	3 oz	15c	42
8	3/16 in	4 oz.	18c	51
10	¼ in	6 oz.	25c	71
12	5/16 in	12 oz.	33c	93

Auger Bit Files

Ⓧ Sharp, fine cut teeth. For all sizes auger bits. 6 in. long.

84A1485—Ship. wt. Ea. 2 oz..... **2**

Hardwood File Handles

Ⓨ Tapered hole insures tight fit. Reinforced with steel ferrule—prevents split ting. Shipping weight each 4 oz.

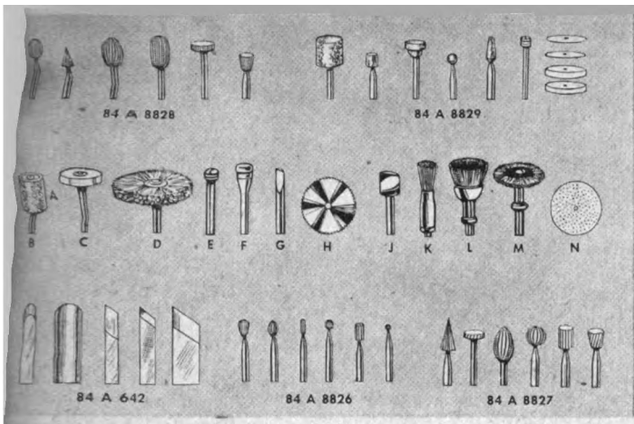
84A1501—4-in. size. For 5 to 8-in. files.
84A1502—4½-in. For 8, 10-in. files.
84A1503—4⅝-in. For 12, 14-in. files.
Each..... **4c**; 3 for..... **10**

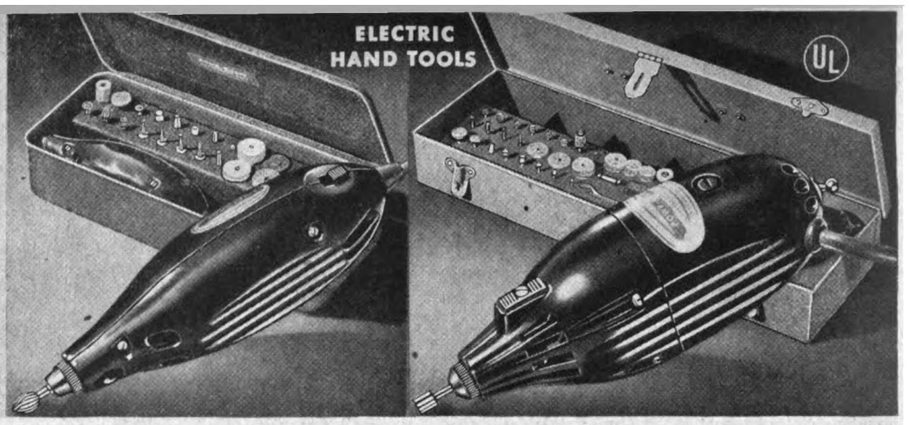
Metal File Handle

Ⓩ Fits all sizes of files *except* 14-in. Screw tightener keeps file from loosening handle. Black japanned finish.

84A1500—Ship. wt. ea. 8 oz..... **9**

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Model Maker's Chisels

...r use with model maker's ...hes. About 9-in. overall. ...ucible steel—tempered and ...ened for keen cutting. ...rdwood handles. Easy to ...dle and use. Set includes ...in. skew, ½-in. skew, ½-in. ...ge, round nose, and cutoff ...

...A 642—Shipping weight ...ounces. ...t of 5 Chisels.....$1.95

Hand Tool Rotary Bits For ⅛-in. Chucks

Mill cut burrs of tempered tungsten steel. Shipping wt. per set, 4 ounces.

84 A 8826—Set of 6 Bits. Wood only...$1.85

84 A 8827—Set of 6 Bits. For wood, plastics, soft metals, lead, copper and brass.....$2.89

84 A 8828—Set of 6. For hard metals.....2.95

10-Piece Abrasive Set

For hard materials. Includes 5 fine quality aluminum oxide abrasive points mounted on ⅛-in. shanks; 2 carborundum cutting discs; ⅛-in. face abrasive wheel; ⅛-in. face hard rubber polishing wheel; one ⅛-in. shank arbor.

Shipping weight 6 oz.

84 A 8829—10 pieces.....$1.65

Electric Hand Tool Accessories for Finishing, Polishing and Routing

Accessories keyed B, E, G and J furnished with ⅛-in. shank; those keyed C, D, F, K, L and M are furnished with 3/32-in. shank.

(B) 84 A 8786—No-Lap Sanding Sleeve only. Wt. 8 oz. Per Doz.....39c

(B) 84 A 8776—Rubber Sanding Drum only. ⅜ by ½ in. Wt. 2 oz. Ea.69c

(B) 84A8778—Felt Wheel on Shank. ⅜ in. diam. Ship. wt. 2 oz. Each....18c

(B) 84A8777—Wire Wheel on Shank. 1 in. diam. Ship. wt. 2 oz. Each.....45c

(B) 84 A 8788—Mandrel for above Saw Blade. Ship. wt. 2 oz. Each....35c

(B) 84 A 8789—Quick Change Mandrel for sandpaper discs. Wt. 2 oz. Each.....65c

(G) 84 A 8794—Veining Bit. 1/16 in. diameter. Ship. wt. 2 oz. Each.....85c

(G) 84 A 8795—Veining Bit. ⅛ in. diameter. Ship. wt. 2 oz. Each.....85c

(H) 84 A 8787—SawBlade. 13/16 in. diam. For wood, soft metals. Wt. 1 oz. Ea.65c

(J) 84 A 8796—Routing Bit. ⅛ in. diameter. Ship. wt. 2 oz. Each.....95c

(J) 84 A 8797—Routing Bit. ¼ in. diameter. Ship. wt. 2 oz. Each.....95c

(N) 84A8779—⅞-In. Sandpaper Discs. Asstd. fine, coarse. Wt. 2 oz. 100 for.28c

For Hobbyists'—16½-Watt Output

Hand Tool Only $9.45 — $14.45 Cash Hand Tool with 24 Accessories

Self-Lubricating Bronze Bearings. Drill, grind, polish, carve, etc. Square, cartridge-type brushes mounted at right angles to armature give maximum seating capacity. Built-in switch. 3/32 and ⅛-in. collet chucks included. 110–120-volt, 60-cycle or less, 16½-Watt output. General Electric Motor runs on A.C. or D.C. 18,000 R.P.M. Overall length 6⅜ in. Underwriters' Approved 6-ft. rubber covered cord and plug. No accessories included.

84 A 630—Hand Tool only. Ship. wt. 2 lbs. $9.45

25-Pc. Outfit—In Heavy, Hinged Steel Box

Hand Tool above with 24 accessories: 6 wood-cutting burrs of tungsten steel; 8 mounted abrasive points; 1 felt wheel; 3 bristle brushes; 1 rubber polishing wheel; 2 carborundum cutting discs; 1 grinding wheel; 1 combination mandrel; 12 Sandpaper discs. Ship. wt. 4 lbs.

84 A 632—Hand Tool with 24 Accessories $14.45

Bristle Brushes for Hand Tools

For cleaning, etc. Ship. wt. ea., 1 oz.

(K) 84 A 8782—3/32 by ¼-in. Brush.....10c

(L) 84 A 8798—Cup Shape Brush.....10c

(M) 84 A 8799—¾-inch Brush.....10c

DeLuxe Machinists'—40-Watt Output

Approved by Underwriter's Lab. Inc.

Hand Tool Only $14.95 Cash — $18.95 Cash Hand Tool With 33 Accessories

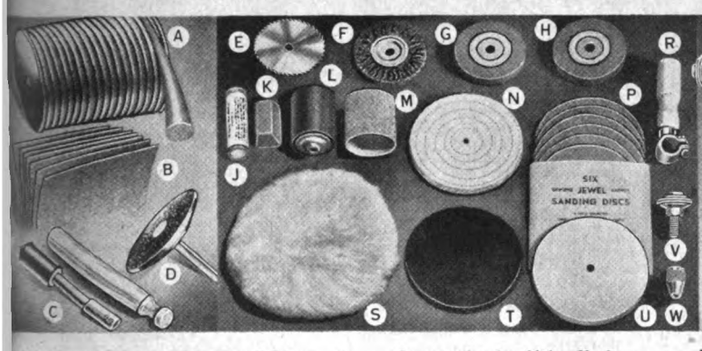
New Departure Precision Ball Bearings. Bearings are grease-sealed—have high radial and end thrust capacity—a real Production Tool for pattern makers as well as for craftsmen. General Electric Motor—develops 40-watt output—about twice that of hand tools selling for up to twice Wards low price. 20,000 R.P.M. 110–120-volt, 60 cycle or less A.C. or D.C. Grind, polish, drill, sand, saw, carve, etc. on wood, metal, glass or plastics. Length overall 7 in. Collet chucks included take 3/32 and ⅛-in. diam. shanks. Patented locking device holds chuck when changing bits. Toggle switch. Large propeller-type fan pulls air over motor—insures cool running. Production type commutator has machined V grooves and steel clamp rings. Square, cartridge type brushes, ride at right angles to armature for maximum performance. 8-ft. rubber covered cord and plug. Satin enamel finish. No accessories.

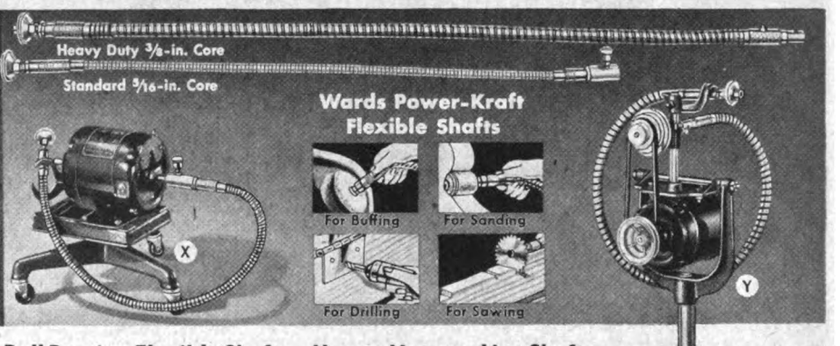
84 A 613—Hand Tool only. Ship. wt. 3 lbs. 8 oz.....$14.95

34-Piece Outfit—In Heavy Hinged Steel Box

The ideal outfit for machinists, repairmen or hobbyists for handling hundreds of jobs. Includes the DeLuxe Hand Tool above with a most practical assortment of 33 accessories as follows: 6 wood cutting burrs; 3 metal cutting burrs; 8 mounted abrasive points; 1 dressing stone; 1 sanding drum; 6 sanding sleeves; 1 felt wheel; 1 bristle brush; 1 rubber polishing wheel; 2 carborundum cutting discs; 1 grinding wheel; 1 combination mandrel; 48 assorted sanding discs. Baked enamel finish, partitioned box—leather handle—steel deck for accessories. Ship. wt. 8 lbs.

84 A 612—Hand Tool with 33 Accessories.....$18.95





Oak Tanned Rounded Leather Belting

(A) Standard gauges. For sewing machines, small power tools. Couplings included. Ship. wt. ft. 2 oz. State size, length.

84 A 9973—3/16-in. Ft..3c; ¼-in. Ft..5c
5/16-in. Ft.....7c; ⅜-in. Ft..9c

Garnet Paper

(B) Finest quality—made of sharper particles of abrasive than regular sandpaper—cuts faster...lasts longer. For spindle sander listed below, and all general purpose sanding. Sheets 9 by 11-in. Ship. wt. per pkg. 1 lb. State Grit: Fine, Medium, or Coarse.

84 A 705—Package of 12 sheets.....49c

Spindle Sander

(C) Sanding sleeve extends over end of rubber drum about 3 in. and centrifugal force makes the paper conform to the work—rubber expands to hold sleeve. Wood roller for forming paper, and garnet paper incl. Fits any ½-in. shaft—(not threaded)—held by 2 set screws.

84 A 740—Wt. 1 lb. 4 oz. Complete...$1.69

Flexible Sanding Disc

(D) Pliable rubber pad 5/16 by 5¾-in. and sandpaper 84 A 754 (below) held to metal back plate by threaded center piece. No gluing necessary. For sanding or polishing curved or uneven surfaces. Fits Flexible Shafts, Polishing Heads or any ½-in. 24-thread shaft.

84 A 8868—Disc Only. Ship. wt. 1 lb..$1.45

84 A 754—Disc Sanding Sheets (not shown). Cloth-backed, med. grit No. 80, aluminum oxide (closed); 6-in. Diam. for Disc above. Ship. wt. 1 oz. Per sheet 11c; 6 for.....59c

Accessories for ½-in. Shafts

(E) 84 A 8863—Saw Blade, 4-in. Steel, teeth set and filed. Shipping weight 2 oz...40c

(F) 84 A 6743—Scratch Brush, 4-in., hardened and tempered steel wire. Coarse. Ship. wt. 6 oz.....28c

(G) 84 A 8516—Grinding Wheel. 4 by ½-in. Vitrified (Fine Grit). Wt. 14 oz.....33c

(H) 84 A 8517—Grinding Wheel. 4 by ½-in. Vitrified (Coarse Grit). Wt. 14 oz.....33c

(K) 84 A 8864—Polishing Compound. General Use. Ship. wt. 5 oz. Each.10c 2 for 18c

(N) 84 A 6742—Cloth Wheel. 6-in. 20-piece bleached, spiral sewed. Ship. weight 4 oz. Each.....13c; 2 for 25c

(U) 84 A 714—Sanding Disc. 6-in. Die cast metal, ½-in. 24-thread. Ship. wt. 1 lb. 65c

(U) 84 A 717—Sanding Disc. Same as 84A714 except unthreaded with set screw. Ship. wt. 1 lb.....59c

(P) 84 A 719—Sanding Sheets for above discs. 6-in. Pkg. of 6. Ship. wt. 5 oz...22c

(J) 84 A 755—Adhesive. For attaching Sanding Sheets to above Sanding Discs. Ship. wt. 6 oz.....39c

(T) 84 A 718—Rubber Pad. 6-in. Use with Sanding Disc or Sheepskin Buffer. Shipping weight 4 oz.....24c

(S) 84 A 711—Sheepskin Buffer. Fine clipped wool. Diam. 8 in. Wt. 6 oz....75c

(W) 84 A 8890—¼-in. 3-Jaw Chuck. Fits ½-in. 24-thread shaft. Ship. wt. 3 oz..35c

Accessories for 5/16-in. Shaft, 24 thread

(L) 84 A 704—Sanding Drum. Rubber cushioned. Expands to hold sleeve. Wt. 7 oz. 95c

(M) 84 A 703—Sanding Sleeve for above Drum. State Fine, Medium or Coarse Grit. Ship. wt. 2 oz. Each..8c; 6 for 45c

Ball Bearing Flexible Shafts—Use on Motor or Line Shaft

Cores of specially wound music wire. Hand piece and motor coupling each have two rows of ball bearings for smooth operation.

Standard—5/16-In. Core

Shaft Only $4.10 — 13-pc. Outfit $7.95

For light grinding, scratch brush work, polishing and drilling up to ¼-in. Includes adaptor No. 897 below. 5/16-in. 24-thread spindle.

584 A 702—Shaft, Adaptor. Ship. wt. 3 lbs. 8 oz.....$4.10

43-In. Extension

Extension for No. 584 A 702 Flexible Shaft. Increases range of work.

584 A 883—Wt. 4 lbs.....$2.85

(V) 84 A 897—½-in. Arbor Adaptor. Converts No. 702 spindle to ½-in. 24-thread. Wt. 7 oz.....32c

(R) 84 A 896—Grip Handle. For No. 702 flexible shaft only. Wt. 10 oz.....39c

13-Piece Outfit

No. 702 with accessories shown at left keyed E, F, G, H, K, N, P, R, S, T and U (thr.). Ship. wt. 11 lbs.

584 A 713—13-pc. set.....$7.95

14-Piece Outfit

Same as No. 584 A 713 outfit above except includes No. 483 A 9858; ⅓ H. P. 1750 R.P.M. A.C. Motor (see motor page). Ship. wt. 38 lbs. *Not Mailable.*

384 A 856—14 Pieces.....$16.69

Heavy Duty—⅜-In. Core

Shaft Only $12.95 — 12-Pc. Outfit $16.25

For heavy duty polishing, sawing, grinding, sanding, etc. Zerk fitting. Do not use with larger than ⅓ H.P. Motor. ½-in. 24-thread spindle fits ¼ and ½-in. chucks and other accessories. Engaging parts heat-treated. Length overall 62½ in. *Mailable.*

584 A 881—Shaft Only. Shipping weight 6 lbs.....$12.95

61½-in. Shaft Extension for Above

Same as above but with shaft coupling instead of threaded spindle. Wt. 6 lbs.

584 A 738—Extension.....$12.95

12-Piece Outfit

584 A 881 above with accessories shown at left keyed E, F, G, H, K, N, P, S, T and U (thr.). Ship. wt. 11 lbs.

584 A 854—*Mailable*.....$16.25

13-Piece Outfit

Same as No. 584 A 854 above except includes No. P483 A 9861 ⅓ H.P. Motor (See Motor Page). *Not Mailable.* Ship. wt. 45 lbs.

384 A 855—13 pieces.....$25.69

84 A 8838—Adaptor for above to take 5/16-in. accessories. Wt. 3 oz..59c

Roller Motor Base

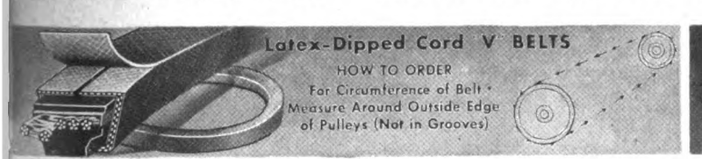
(X) 3-legged cast iron base for ¼ or ⅓-H.P. motor—ball bearing casters. Shaft hanger. Base rotates. Ship. wt. 15 lbs. *Mailable.*

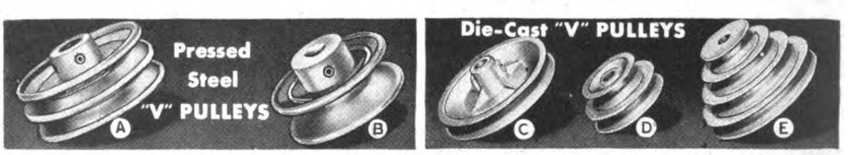
584 A 749—Base only.....$4.95

Roller Tripod Stand

(Y) 44½-in. high, 1½-in. diam. steel post. Height adjustable. 14½-in. steel tool pan. Ball bearing casters. Motor tilts, rotates. Shaft hanger. Shipping weight 43 pounds. *Mailable.*

484 A 604—Stand only with 4-step jack shaft, belt, 4-step motor pulley.....$12.75





33⅓% Longer Life Than Some National Brands—by Actual Test! Here's Why:

(1) Extra Layer of live rubber *seals* splice of fabric wrappers—reduces wear and keeps splice from opening.

(2) New "*Flex-Seam*"—allows free expansion and contraction as belt "flexes" around pulleys—like your auto tire! Every strand soaked in Pure Latex—woven into tough Cord—again Latex-dipped. Cords then imbedded in live rubber—reduces heat and wear!

(3) Cords *Triple-Insulated with Latex*—reduces internal friction!

(4) Rubber-impregnated fabric cover *Ulcranised* to live rubber cushion core! When ordering replacement belts send no. on old belt. State circumference wanted.

22c ⅜x20 in.

84 A 9961—

Outside Circum. Inches	Ship. Wt. Oz.	⅜ In. Width Ea.
20	4	22c
21	4	23c
22	5	24c
23	5	25c
24	5	26c
25	5	30c
26	5	31c
27	5	32c
28	5	33c
29	5	34c
30	5	36c
31	6	37c
32	7	39c
33	7	41c
34	7	43c
35	8	44c
36	8	64c

84 A 9962—½-In. Width.

Outside Circum. Inches	Ship. Wt. Oz.	Ea.	Outside Circum. Inches	Ship. Wt. Oz.	Ea.
20	3	23c	46	6	49c
22	3	24c	47	7	50c
23	4	25c	48	7	51c
24	4	26c	49	7	52c
25	4	27c	50	7	53c
26	4	28c	51	7	54c
27	4	29c	52	7	55c
28	4	30c	53	7	56c
29	4	31c	54	7	57c
30	4	32c	56	7	59c
31	4	33c	58	7	60c
32	4	34c	60	8	64c
33	5	36c	62	8	66c
34	5	36c	64	8	67c
35	5	38c	65	8	68c
36	5	39c	66	8	69c
37	5	40c	68	8	71c
38	5	41c	70	8	72c
39	5	42c	72	8	73c
40	5	43c	74	8	75c
41	5	44c	77	9	77c
42	5	45c	82	10	79c
43	6	46c	87	10	85c
44	6	47c	92	10	95c
45	6	48c	..	..	....

Single Groove Steel Pulleys for ⅜ or ½-in. Belts

(B) For production work. Bores of ⅜ in. and over have key ways with hollowhead set screws and wrench.

84 A 9996—State diameter and bore wanted.

Outside Diam. In	State Bore In	Ship. Wt. Lbs.	Oz.	Ea.	Outside Diam. In	State Bore In	Ship. Wt. Lbs.	Oz.	Each
2	½, ⅝, ¾	6		35c	5½	½, ⅝, ¾	1	6	76c
2½	½, ⅝, ¾	9		39c	6	½, ⅝, ¾	1	8	82c
3	½, ⅝, ¾	11		49c	6½	½, ⅝, ¾	1	13	89c
3½	½, ⅝, ¾	13		57c	8	½, ⅝, ¾, 1	2	9	$1.19
4	½, ⅝, ¾	15		59c	10	½, ⅝, ¾, 1	3	4	1.49
4½	½, ⅝, ¾	1	1	65c	12	½, ⅝, ¾, 1	4	0	1.95
5	½, ⅝, ¾	1	3	69c	15½	½, ⅝, ¾, 1	6	9	2.98

Double Groove "V" Pulleys

(A) Built only for domestic applications demanding unfailing operation. 2 Allen set screws and wrench. For "A" belts—Up to ½-in.

84 A 9965—State diam., bore.

Outside Diam.	Bore In.	Ship. Wt. Lbs.	Oz.	Ea.
2 in.	½, ⅝, ¾	1		$1.57
2½ in.	½, ⅝, ¾	1	8	1.85

For "B" belts—½ to 1 1/16-in.

84 A 9965—State diam., bore.

Outside Diam.	Bore In.	Ship. Wt. Lbs.	Oz.	Ea.
3 in.	⅝, ¾, 1	1	12	$2.35
3.4 in.	⅝, ¾, 1	2	2	2.58
4 in.	⅝, ¾, 1	2	8	2.80
4½ in.	¾, 1	2	14	3.10
5 in.	¾, 1	3	4	3.30
6 in.	¾, 1	4	..	3.75

High Tensile Strength White Metal Pulleys

Step Pulleys—run true at all speeds. Use with ⅜ or ½-in. V belts. Set screws included.

(D) 2-Step—2½ and 2-in. diam. ½ or ⅜-in. bore.

84 A 9972—Wt. 10 oz...37c

(E) 4-Step—½, ⅝, ¾-in. bore.

84 A 9974—4, 3¼, 2½, 1¾-in. diameters. Motor pulley for Lathes 636, 889, 899; Drill Press 627. State bore. Wt. 2 lbs.....62c

84 A 9975—5, 3⅜, 2 15/16, 1¾-in. diameters. Motor pulley for Drill Presses 593, 621, 623. State bore. Ship. wt. 2 lbs. 8 oz.....75c

84 A 9960—3½, 2½, 2 5/16, 1¾-in. diameters. Motor pulley for Jig Saw No. 775. Wt. 1 lb. State bore.75c

84 A 9989—4½, 3¾, 3, 2¼-in. diameters. Motor pulley for Lathe No. 184A607. State bore. Wt. 2 lbs. 14 oz.$1.15

(C) Single Groove—Made of uniform density close grain white metal. For ⅜ or ½-inch V-belts. Solid disc type, diamond bored. With set screw. Run true at all speeds.

84 A 9968—State outside diam. and bore wanted.

Outside Diam. Inches	State Bore, Inches	Ship. Wt. Lbs.	Oz.	Price
1½ in.	½, ⅝	4		17c
1¾ in.	½, ⅝	5		18c
2 in.	½, ⅝	6		19c
2½ in.	½, ⅝	8		23c
2½ in.	½, ⅝, ¾	8		25c
3 in.	½, ⅝, ¾	10		27c
4 in.	½, ⅝, ¾	12		39c
5 in.	½, ⅝, ¾, 1	1		50c
6 in.	½, ⅝, ¾, 1	1	12	65c

CBA WARDS 1099

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SWIVEL BASE GARAGE VISES



NEW!

Wards Master DeLuxe Quality

$4.98 3-in. Jaws

- **Designed by Wards for triple duty—use as a garage vise, a pipe vise, or an anvil. Every part carefully machined.**

A new kind of Garage Vise design—leads not only in appearance, but in additional utility. Check these features!

Unbreakable malleable iron body and base—large polished anvil area over both jaws—rust-resisting handle and Acme threaded screw. Replaceable alloy steel, heavily knurled jaw faces for a slip-proof grip. Removable, tool steel hardened pipe jaws—removable cut-off tool. 360° positive locking, 3-point swivel base. Close fitting cold rolled steel beam. Heavier construction with weight distributed at all points of strain. With 3 lag screws. Actual and Ship. wts. are the same. Gray crackle finish. See Back Cover for Terms. *Mailable.* **State Art. No.**

Article No.	Width Jaws	Jaws Open	Takes Pipe	Ship. Wt.	Each
484 A 6791	3 in.	4½ in.	⅛ to 2 in.	18 lbs.	$4.98
484 A 6792	4 in.	5¼ in.	⅛ to 2¼ in.	28 lbs.	6.98
484 A 6793	5 in.	6 in.	⅛ to 2½ in.	34 lbs.	9.48



Unbreakable Malleable Iron Construction. No stronger Garage Vise made! Large anvil area over both jaws gives added utility. Removable, hardened, tool steel pipe jaws. Cut-off tool for nails, wire.

Wards Master Quality Garage Vise

$2.79 3-in. Jaws

- **Modern design for added utility.**
- **Rust resisting handle and Acme threaded screw will not bind.**

Rugged semi-steel body resists hard wear. Replaceable, alloy tool steel jaw faces have knurled surfaces for a slip-proof grip. Removable, unbreakable malleable iron pipe jaws. Removable cut-off tool. Cold rolled steel beam. Wide, 3-point positive locking swivel base. Polished jaws, anvil face. Gray crackle finish. With 3 lag screws. *Mailable.* **State Art. No.**

Article Number	Width Jaws	Jaws Open	Takes Pipe	Actual and Ship. Wt.	Each
P484 A 6815	2½ in.	4 in.	⅛ to 1 in.	13 lbs.	$2.10
P484 A 6816	3 in.	4¼ in.	⅛ to 1¼ in.	14 lbs.	2.79
P484 A 6817	3½ in.	4½ in.	⅛ to 1½ in.	18 lbs.	3.69
P484 A 6818	4 in.	5¼ in.	⅛ to 1¾ in.	25 lbs.	5.79
484 A 6819	5 in.	5½ in.	⅛ to 2½ in.	45 lbs.	7.49

"P" *MEANS PITTSBURGH. "P" before Art. No. means that item is shipped from Pittsburgh as well as Chicago, Baltimore or Albany. Save time and money—order from nearest House.*

Wards Lakeside Quality

$2.05 3-in. Jaws

- **Semi-steel construction for longer life.**

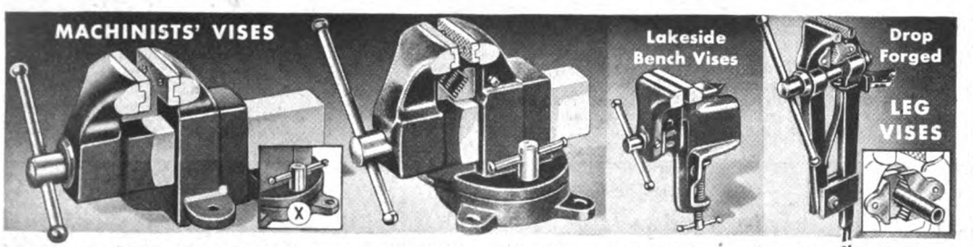
Stronger—resists breakage more than cast iron. Replaceable, heat treated Bessemer steel jaw faces, properly knurled for slip-proof grip. Cold rolled steel beam, handle and Acme threaded screw. Removable, hardened steel cutoff tool. Removable, malleable iron pipe jaws. Positive locking, 3-point contact swivel base. Polished jaws and anvil face. Durable Green enamel finish. With 3 lag screws for attaching to bench. Shipping and actual weights about 11, 15 and 20 lbs. All sizes are *Mailable.* **State Article Number.**

Article Number	Width Jaws	Jaws Open	Takes Pipe In.	Each
P584 A 6795	2¾ in.	3 in.	½ to 1 in.	$1.59
P484 A 6796	3 in.	3½ in.	½ to 1¼ in.	2.05
P484 A 6797	3⅝ in.	4½ in.	½ to 1½ in.	2.89

Eclipse Quality

A good general purpose cast iron Garage Vise. You'd pay up to $1.75 elsewhere for this qual... Width of jaws 3 in.—to 3 in. Solid, mach... smooth jaw faces. Bui... pipe jaws take pipe fro... to 1½ in. Cold rolled ... acme threaded ... Strong, snug fitting ... beam prevents mov... front jaws from wobbl... Positive locking, 3-p... swivel base. Rust-resi... Red enamel finish. Inch... one of Wards Vises on y... Credit Order—See In... Back Cover for Terms. ... tual and Shipping we... 10 lbs.

P584 A 6790—Each...



Wards Semi-Steel Machinists' Vises

$4.39 Solid Base 3½-in. Jaws — $5.98 Swivel Base 3½-in. Jaws

Weight well distributed—parts under strain reinforced. Heat treated, replaceable Bessemer steel jaw faces, heavily serrated for a slip-proof grip. Cold rolled steel Acme thread screw. Heavy cast iron sliding bar will not bind. Cold rolled steel handle. Lag screws included. Ship. wts. and actual wts. same. *All except 184 A 6808 Mailable.*

Solid Base Machinists' Vises

Use where a swivel base vise is not needed.

Article No.	Width Jaw	Jaws Open	Ship. Wt.	Each
484 A 6800	3½ in.	5 in.	22 lbs.	$4.39
484 A 6801	4 in.	6 in.	31 lbs.	6.25
484 A 6802	4½ in.	6½ in.	43 lbs.	8.45
484 A 6803	5 in.	7½ in.	56 lbs.	10.95

Swivel Base Machinists' Vises

(X) Swivel base locks in any desired position.

Article No.	Width Jaw	Jaws Open	Ship. Wt.	Each
484 A 6805	3½ in.	5 in.	32 lbs.	$5.98
484 A 6806	4 in.	6 in.	40 lbs.	7.95
484 A 6807	4½ in.	6½ in.	57 lbs.	10.75
184 A 6808	5 in.	7½ in.	72 lbs.	12.45

Wards Heavy Weight Machinists' Vises

$11.95 Cash — Swivel Base 3½-in. Jaws

- **Two Vises in one—a swivel base Machinists' Vise and a Pipe Vise.**

Larger, heavier than swivel base vises at left. Milled tool steel removable pipe jaws. Replaceable, heavily knurled, heat treated alloy steel jaw faces. Cold rolled steel screw with Acme threads. With 3 lag screws for attaching to bench. Just $2 a Month—See Inside Back Cover. Actual wts. same as Ship. wts. *Mailable.*

484 A 6770—3½-in. jaws open 4 in. Takes pipe ⅛ to 2½ in. Wt. 44 lbs. **$11.95**

484 A 6771—4-in. jaws open 4 in. Takes pipe ⅛ to 3 in. Wt. 56 lbs. **$13.75**

Save 33⅓%

For gunsmiths, radio men, etc. Cold rolled steel guides, screw, handle. Anvil, bench clamp. Red enameled cast iron.

84 A 6839—Solid Base. Jaws 1¾ in. wide, open to 1⅝ in. Ship. wt. 2 lbs. 8 oz.. **55c**

84 A 6849—Solid Base. Jaws 2½ in. wide, open to 2½ in. Ship. wt. 4 lbs. **89c**

84 A 6845—Swivel Base. (Not shown.) Jaws 2½ in. wide open to 2½ in. Ship. wt. 5 lbs... **$1.19**

Save ⅓ at Wards

$5.95 P484 A 6870

- **Leg can be set into floor.**
- **Steel screw in threaded box.**
- **Heat treated and tempered drop forged steel jaws.**

Overall height about 41 in. Lag screws included. Ship. wts. 35-lb. size, 40 lbs.; 50-lb. size, 55 lbs.; 70-lb. size, 75 lbs. All vises except 70-lb. size are mailable.

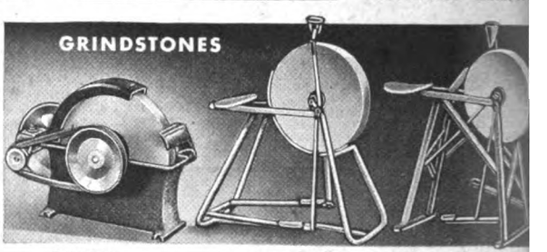
With Removable Pipe Jaws

35-lb. takes pipe ½ to 2 in.; 50-lb. ½ to 2½ in.; 70-lb. ½ to 3 in.

Article Number	Wt. Lbs.	Width Jaws	Jaws Open	Each
P484A6871	35	⅞ in.	3½ in.	$6.45
P484A6875	50	5 in.	4½ in.	7.95
184A6876	70	5½ in.	5 in.	13.95

Without Pipe Jaws

Article Number	Wt. Lbs.	Width Jaws	Jaws Open	Each
P484A6870	35	4 in.	3½ in.	$5.95
P484A6872	60	5 in.	4¼ in.	7.45



Belt Driven Wet Grindstone

10 by 1½-in. natural Ohio sandstone runs 125 R.P.M. Rotates in water—won't draw temper. Cast iron frame. Double adj. tool rest. ⅝-in. shaft. Self-lubricating bronze bearings. Ht. 11¼ in. 16½ in. long. Enamel fin. Use 1¾-in. V-pulley on ½-H.P. 1750 R.P.M. motor. Wt. 31 lbs.

484 A 891..... **$7.95**

Foot Treadle Type Mounted Grindstone

Ball Bearing treadle rods and shafts. Fine g... natural Ohio Sandstones—won't draw t... Adj. seat, 2 pedals, water cup, splasher guard ... cluded with each Grindstone. Shipped knoc... down with assembling instructions. *Not Maila...*

Modernistic Design

Improved heavy duty type. Extra strong, welded tubular steel frame won't wobble. Sandstone about 22 by 2½ in. Rust resisting finish. Ship. wt. 100 lbs.

184 A 6786—Cash. **$11.75**

Standard Design

Strong angle st... frame sets solid ... Sandstone about ... by 2 in. Rust resi... ing Black enamel ... ish. Shipping wei... 75 lbs.

P184 A 6780.. **$7.**

Ball Bearing Grindstone Fixture

For stones with a 2-inch square hole. Steel shaft, 8⅞ in. long by ⅝ in. diam. Runs easily. No treadle rods or pedals included. Ship. wt. 5 lbs. 8 oz.

84 A 6777—Each..... **$1.98**



Sandstones Only

Fine grain natural Ohio Sandstone... same high quality as ... grindstone outfits abo... Shaft hole about 2 inch... square. *Not Mailable.*

184 A 6776—State size.

Abt. 20 by 2 in. Ship. wt. 50 lbs. Ea. **$3.9...**

Abt. 22 by 2¼ in. Ship. wt. 68 lbs. Ea. **4.9...**



Meets U. S. National Bureau of Standards Specifications

- **Meets spec. of Wire Rope Manufacturers' Ass'n. for strength, size and weight.**
- **Every foot is made of highest quality steel wire, heat treated and tempered.**

All Hoisting Cables below are made from 6 strands of 19 wires each—a total of 114 tough steel wires spirally laid (*regular right lay*) over a lubricated hemp center—treated to withstand high internal heat and pressure—increases life of rope. Strong steel band prevents raveling. Safe working load is ⅕ of breaking strain. Drum diam. (listed in tables below) is barrel of hoisting machine. For any order for 100 feet or more of one size, multiply total number of feet by 100-ft.-Per-Foot price. For less than 100 feet use Per Ft. price. Available in any continuous length. Include some on your Time Payment Order—See Inside Back Cover for Terms. Ship. wts. up to 70 lbs. are *Mailable.*

Select the correct grade for your work from the 3 qualities listed below.

GOOD—Cast Steel Hoisting Cable

Ultimate tensile strength 175,000 lbs. per sq. in. Meets U. S. Gov't. and Wire Rope Ass'n. specifications for *Type XVI.* A strong and pliable STEEL ROPE for light hauling and hoisting where loads and drum diam. conform to those shown below. Suitable for silo braces, tow ropes, guy ropes, small stump pulling, etc. Same quality called "standard" elsewhere. More flexible—operates on smaller diam. sheaves than ropes with higher breaking strain.

Safe working load is ⅕ breaking strain.

614 A 6450—State size and quantity wanted.

Size Diam In.	Drum Diam. Advised: Recommended	Drum Diam. Advised: Minimum	Breaking Strain Pounds	Wt. 100 Ft. Lbs.	Price Per Foot	Price 100 Ft.
¼	11 in.	3	4200	12	3¾c	$3.25
5/16	14 in.	4	6400	18	5c	4.50
⅜	17 in.	5	9000	24	6¼c	5.65
½	22 in.	7	15400	39	7¾c	7.00

BETTER—Plow Steel Hoisting Cable

Ultimate tensile strength 225,000 lbs. per sq. in. Meets U. S. Gov't. and Wire Rope Ass'n. spec. for *Type XX.* About 20% greater breaking strain than cast steel at left. A tough STEEL CABLE for all general hoisting and stump pulling. For steam shovels and derricks where use conforms to breaking strain and drum diam. below.

Safe working load is ⅕ breaking strain.

684 A 6451—State size and quantity wanted.

Size Diam In.	Drum Diam. Advised: Recommended	Drum Diam. Advised: Minimum	Breaking Strain Pounds	Wt. 100 Ft. Lbs.	Price Per Foot	Price 100 Ft.
¼	11 in.	4	5300	12	4½c	$4.00
5/16	14 in.	5	7800	18	6c	5.50
⅜	17 in.	6	11500	24	7¼c	6.50
½	22 in.	8	20000	39	9c	8.25
⅝	28 in.	10	31000	60	11¾c	10.75
¾	34 in.	12	46000	90	15c	13.75
⅞	39 in.	14	58000	124	19¼c	17.75

BEST—Improved Plow Steel Hoisting Cable

Ultimate tensile strength 250,000 lbs. per sq. in. Meets U. S. Gov't. and Wire Rope Ass'n. specifications for *Type XXIII.* Highest grade and toughest CABLE made (in this type construction). Has about 25% greater breaking strain than Plow Steel Grade, Type XX listed at left. Recommended for strenuous service on steam shovels, industrial cranes, derricks, etc. where use conforms to the breaking strain and drum diameter shown in table below.

Safe working load is ⅕ breaking strain.

684 A 6457—State size and quantity wanted.

Size Diam. In.	Drum Diam. Advised: Recommended	Drum Diam. Advised: Minimum	Breaking Strain Pounds	Wt. 100 Ft. Lbs.	Price Per Foot	Price 100 Ft.
⅜	17 in.	8	14000	24	9c	$8.25
½	22 in.	10	25000	39	10½c	9.75
⅝	28 in.	12	36000	60	14c	13.00
¾	34 in.	14	51000	90	19½c	18.25



Tackle Blocks for Wire Rope

(A) **Diamond shaped** wrought iron shell. Single, free-rolling sheave. Swivel hook. With strap and becket. Enamel finish.

484 A 6145—State diam.

Diam. Sheave	For Rope Inches	Ship. Wt. lbs.	Ship. Wt. oz.	Price Each
6 in.	¼, 5/16	12	14	$4.4...
8 in.	⅜, ½	24	14	6.2...
10 in.	⅝	34	13	7.9...

Steel Shell Tackle Blocks for Manila Rope

(B) Single, double or triple sheave. Enamel finish. State article number and size shell wanted.

Size shell, In.	4	6	8
Diam. Sheave, in.	2¼	3½	4¾
Use for Rope, in.	⅜, ½	⅝, ¾	1
584 A 6160—Single Sheave	44c	62c	$1.1...
Shipping weight, each	2 lbs.	4 lbs.	9 lbs
584 A 6163—Double Sheave	80c	$1.09	$1.9...
Shipping weight, each	3 lbs.	7 lbs.	13 lbs
584 A 6165—Triple Sheave	$1.10	$1.63	$3.1...
Shipping weight, each	4 lbs.	9 lbs.	16 lbs

Clips and Thimbles for Wire Rope

(C) **Thimbles.** Heavy sheet steel. Also for manila rop... **State article number and size wanted.**

(D) **Clips.** Malleable iron. With spiral corrugations to pr... vent wire rope slipping. Black japanned finish.

For Size Rope	Ship. Wt. Oz.	(D) 84 A 6454 Clips: Each	(D) 84 A 6454 Clips: 6 For	Ship. Wt. Oz.	(C) 84A6455 Thimble: Each	(C) 84A6455 Thimble: 6 For
1/16 in.	3	4c	21c	2	4c	19c
5/32 in.	4	4c	21c	3	4c	19c
3/16 in.	5	5c	27c	3	5c	25c
¼ in.	7	7c	39c	4	6c	30c
5/16 in.	10	9c	51c	5	9c	49c
⅜ in.	16	12c	69c	7	10c	55c
½ in.	24	16c	93c	9	13c	73c

Drop Forged and Malleable Iron Turnbuckles

For taking up slack on wire line, wire rope or chain.

(E) **Drop Forged.** Unbreakable steel body. Rust resisting finish. With hook and eye. Order from table at right.

84 A 6453—State size.

(F) **Malleable Iron.** Eye and eye type. Rust-resisting finish. Light duty—for heavy duty see 84 A 6453 above. Order from table at right.

84 A 6458—State size.

Size	Take Up	Wt. Each	Each	6 For
¼ in.	4 in.	6 oz.	22c	$1.19
5/16 in.	4¼ in.	9 oz.	28c	1.49
⅜ in.	6 in.	1 lb.	37c	1.98
½ in.	6 in.	2 lbs.	55c	2.98

Size	Take Up	Wt. Each	2 For
5/32 in.	1¼ in.	2 oz.	9c
3/16 in.	1⅝ in.	3 oz.	10c
¼ in.	2⅛ in.	4 oz.	19c
5/16 in.	2⅝ in.	6 oz.	29c
⅜ in.	3 in.	8 oz.	39c

Iron Wire Hoisting Rope

⅜-in. Diameter Economy Grade. Used for hay carriers and derricks. Made of 6 strands — 19 wires in each strand — hemp center. Drum diam. recommended, 17 in. to 4-in. minimum. Breaking strain 4100 lbs. **Safe working load is ⅕ breaking strain.** Ship. wt. per 100 feet, 24 lbs.

684 A 6452—Per Ft..5¾c Per 100 Ft..$5.00

5c Ft. In 100-Ft. Lengths

1100 WARDS 2CBA

Satisfaction or Your Money Back! See Page 1165.

Mild Steel Drilling Lines—Cast Steel Sand and Bailing Lines

11c Ft.

Conform to A.P.I. Spec. Safety factor 5 to 1. **Shipped from Factory near Chicago or New York City—allow 5 days. State size and quantity wanted.**

Drilling Lines. For oil, water and blast hole digging. 6 strands 19 wires each. Size ⅜ in.

284 A 6467—Left Lay. 284 A 6468—Right Lay.

Size Diam.	Drum Diam. Recommended	Safe Working Load	Breaking Strain	Ship. Wt. 100 Ft.	Per Ft.
⅜ in.	28 in.	5250 lbs.	26200 lbs.	60 lbs.	11c
½ in.	34 in.	7280 lbs.	37400 lbs.	90 lbs.	14c
⅝ in.	39 in.	10160 lbs.	50800 lbs.	124 lbs.	18c
1 in.	45 in.	13200 lbs.	66000 lbs.	151 lbs.	22c

5c Ft. Size 7/16 in.

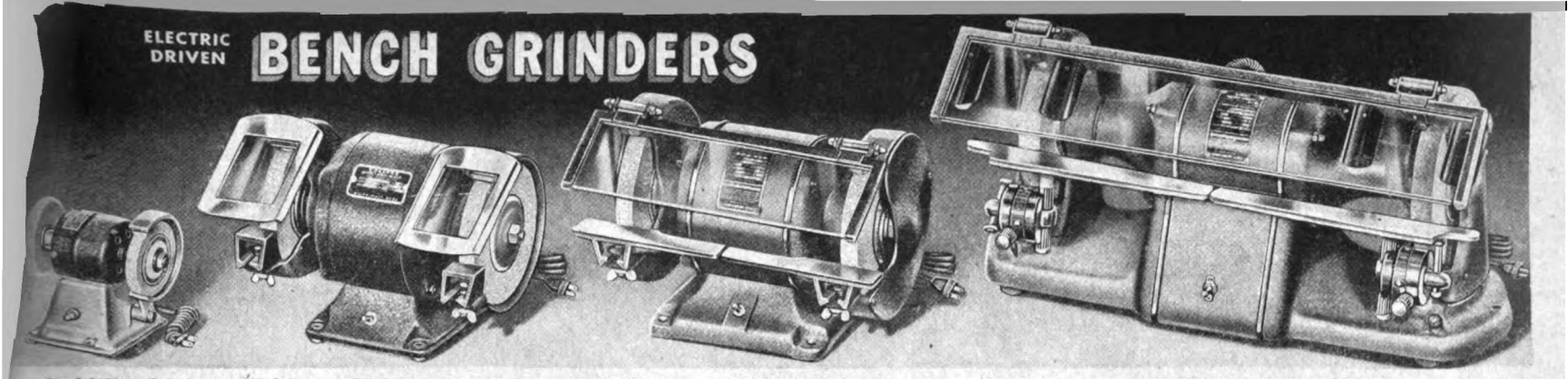
Sand and Bailing Lines. Attach to bailer. 6 strands of 7 wires each.

284 A 6459—Right Lay. **State size, quantity.**

Size Diam.	Drum Diam. Recommended	Safe Working Load	Breaking Strain	Ship. wt. 100 Ft.	Per Ft.
7/16 in.	32 in.	2120 lbs.	10600 lbs.	29 lbs.	5c
½ in.	36 in.	3000 lbs.	15000 lbs.	38 lbs.	6½c
9/16 in.	41 in.	3760 lbs.	18800 lbs.	48 lbs.	8c
⅝ in.	45 in.	4600 lbs.	23000 lbs.	59 lbs.	9½c

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ELECTRIC DRIVEN BENCH GRINDERS



ousehold Elec. Grinder For Light Duty Work — $5.95

h ½ by 2-in. fine grain Master Quality rified grinding wheel and ⅜ by 3-in. th buffing wheel. **Universal motor 30 H.P.** 110–120-volt A.C. or D.C. 7000 .M. On-Off switch. Length shaft 6½ diam. 5/16 in. Base 4 by 4 in. Ht. over- 5 in. Lgth. cord 55 in. with plug. Black Red enameled. *Mailable.*

A 6702—Ship. wt. 5 lbs. 10 oz. . . $5.95

Machinists' Goggles



Used by grinders, miners, etc. 2-in. diam. shatterproof glass lens. Ventilated and screened eye cups. Adj. rubber head band. Wt. 6 oz.

84 A 6564—Pair . **$1.98**

GOOD—Eclipse Quality Shop Bench Grinders — $11.95 Cash, ¼ H.P., Less Shields, $2 a Month

- Grease sealed New Departure ball bearings.
- Available with or without shatterproof glass safety shields.

Enclosed split phase motor. Full load speed 3450 R.P.M.—no-load 3600 R.P.M. On-Off switch. Adj. tool rests—removable guards. Two ¾ by 6-in. Lakeside Quality *Vitrified* wheels—1 fine, 1 medium grain. Shaft diam. ½-in. Length shaft 11 13/16 in. on ¼ H.P., and 12 7/16 in. on ⅓ H.P. 6-ft. cord, plug. Black crackle fin. **For 110-120-volt, 60-cycle A.C.**

Maialable H.P.	Ship. Wt.	Without Glass Shields Art. No.	Price	With Glass Shields Art. No.	Price
¼	35 lbs.	484 A 6756	$11.95	484 A 6757	$12.95
⅓	38 lbs.	484 A 6767	15.45	484 A 6768	16.95

BETTER—Lakeside Quality Industrial Type Grinders — $16.45 Cash, ¼ H.P., Less Shield, $2.50 a Mo.

- Built to rigid American Abrasive Safety Code Requirements!
- Available with or without full length shatterproof glass safety shield.

Grease sealed New Departure ball bearings. Adj. tool rests. Adj. tongue on guards—can be lowered as wheels wear. Thermotron. Enclosed Split Phase Motor. Full-load speed 3450 R.P.M.—no-load 3600 R.P.M. On-Off switch. Two Master Quality *Vitrified* wheels—1 fine, 1 medium grain. Shaft diam. ⅝-in. 7½-ft. cord, plug. Crackle fin. **For 110-120-volt, 60-cycle A.C.**

Maialable H.P.	Wheels Size In.	Shaft Length	Ship. Wt.	Without Glass Shield Art. No.	Price	With Glass Shield Art. No.	Price
¼	¾ x 7	13 5/16 in.	45 lbs.	484 A 6763	$16.45	484 A 6764	$18.45
⅓	¾ x 7	13 5/16 in.	50 lbs.	484 A 6761	19.45	484 A 6758	21.45
½	1 x 7	13 13/16 in.	55 lbs.	484 A 6762	25.95	484 A 6759	27.95

BEST—Wards Master Quality Production Bench Grinders — $49.95 Cash, ⅓ H.P., With Glass Shield, $5 a Month

- Full length adjustable tool rests with bevel indicator for accurate work—can be set at any angle from 30 to 90 degrees.
- Full length adjustable shatterproof glass safety shield.
- Built to Amer. Abrasive Safety Code Requirements.

Dual lights over each wheel. Small diam. motor allows grinding across face of machine. Sealed New Departure ball bearings. Easy fast starting motor. Thermotron protector. Adj. tongue on guards—can be lowered as wheels wear down. Dust chute outlets. With 2 Master *Vitrified* wheels—1 fine, 1 medium grain. Full-load speed 3450 R.P.M.—no-load 3600 R.P.M. On-Off switch. 7½-ft. cord and plug. Gray wrinkle finish. **For 110-120-volt, 60-cycle A.C.** *Not Maialable.*

Article Number	H.P.	Wheels Size In.	Shaft Diam.	Shaft Length	Ship. Wt.	With Glass Shield
184 A 6765	½	¾ x 7	⅝ in.	20 1/16 in.	97 lbs.	$49.95
184 A 6766	½	1 x 7	⅝ in.	20 1/16 in.	102 lbs.	59.95

HAND GRINDERS



Eclipse Quality — 75c, With 1x4-in. wheel

Good general purpose grinder. Fine grain *Silicate* wheel. Modernistic design gear case, machine cut gears. Adjustable tool rest. For household use, sharpening knives, etc. Arbor in wheels 5/16 in. Red enamel finish. *Mailable.*

484 A 6665—With ¾ by 3-in. wheel. Ship. wt. 1 lbs. 4 oz. **59c**

484 A 6666—With 1 by 4-in. wheel. Ship. wt. 1 lbs. 4 oz. **75c**

484 A 6667—With 1 by 5-in. wheel. Ship. wt. 4 lbs. 8 oz. . . **95c**

Lakeside Quality — $1.59, With 1x4-in. wheel

Equals many other's "Best." *Vitrified* fine grain grinding wheels. Dustproof gear case. Machine cut gears run smoothly. Adjustable tool rest. Spring cap oilers. Arbor in wheel: 1 by 4-in. size, 5/16-in.; others, ⅜-in. Rust-resisting Greenenamel finish. Wts. 6, 10 and 14 lbs. *Mail.*

584 A 6677—With 1 by 4-in. wheel. . . **$1.59**

584 A 6678—With 1 by 5-in. wheel. . . . **2.19**

584 A 6679—With 1 by 6-in. wheel. . . . **2.89**

Master Quality — $2.79, 1½x4-in. Wheel

Extra wide, fine grain *Vitrified* wheels for wide, sharp edged tools. Ball bearing thrust. Double bevel tool rest and clamp. Extra lug on gear case for tool rest—for right or left handed operator. Cork gasket makes gear case oil-tight. Comfortable oval wood handle grip. Machine cut gears. Spring cap oilers. Rust-resisting Gray crackle finish. *Mailable.*

584 A 6687—Wheel 1½ by 4 in. Wt. 8 lbs. . **$2.79**

484 A 6688—Wheel 1½ by 5 in. Wt. 12 lbs. . **$3.59**

484 A 6689—Wheel 1½ by 6 in. Wt. 15 lbs. . **$4.98**

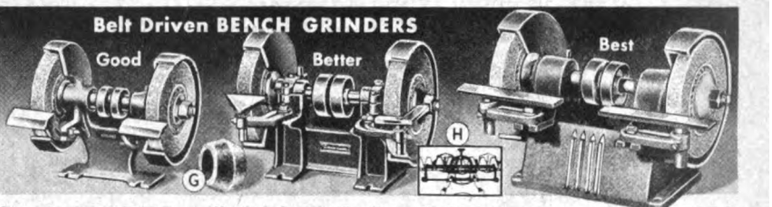
484 A 6694—Wheel 1½ by 7 in. Wt. 16 lbs. . **$6.49**

Chisel and Plane Bit Sharpening Attachment

Attaches to Hand Grinders listed above or at right. Assures a uniform cutting edge bevel.

84 A 6669—Ship. wt. 2 lbs. **65c**

Belt Driven BENCH GRINDERS



Powr-Kraft Bench Grinder — $5.45 Complete

Complete with guards and wheels. Self lubricating bronze bearings. **Light Duty**—sharpens chisels, plane bits, etc. Shaft 9 by ½ in. Pulley 1⅞-in. diam., 1⅛ in. wide for ½-in. "V" or 1-in. flat belts, with two ½x6-in. *Vitrified* grinding wheels. Overall ht. 9 in. Base 5¼x6¼ in. *Maialable.*

484A886—Ship. wt. 18 lbs. **$5.45**

Eclipse Quality — $2.75, 584 A 6711

Light Duty. Babbitted Bearings with oilers. Center of shaft to base 5 in. Lgth. shaft 12 in., diam. ⅝ in. Cast iron pulley for ⅜-in. "V" or round, or 1½-in. flat belts, width face 1⅝ in. diam. 2 in. Cast iron base 3½ by 6¾ in. Ht. 6¼ in. 4 lag screws. *Maialable.*

584A6711—Grinder Head Only. Wt. 14 lbs. . . . **2.75**

Grinder Head With Guards Only. Large enough for 6-in. wheels.

584A6712—Wt. 18 lbs **$4.35**

Grinder Head, Guards, Wheels. No. 584 A 6712 with two 1 by 6-in. Lakeside *Vitrified* wheels, 1 fine, 1 medium grain.

384A6713—Wt. 25 lbs. **$5.65**

Wards Lakeside Quality — $4.29, 484 A 6720

Heavy Duty. Split Babbitted bearings with oilers. Center shaft to base 6 in. Shaft 16½ by ¾ in. Iron pulley 2⅜ by 3½ in. diam., for ½-in. "V," round, or 2-in. flat belts. Iron base 6 by 9½ in. 4 lags. Wt. 24 lbs. *Maialable.*

484 A 6720—Grinder Head Only. . . $4.29

With Guards Only. Above Grinder Head with 2 guards for 8-in. diam. wheels.

484 A 6721—Ship. wt. 36 lbs. **$6.45**

Grinder Head with Guards, Wheels. Same as 484 A 6721, but with two Master Quality *Vitrified* grinding wheels 1¼ by 8 in., one fine and one coarse grain.

384 A 6724—Ship. wt. 55 lbs. **$9.95**

(G) Vitrified Sickle Wheel. Fits Lakeside Grinders above. 5½ by 3½ in.

84 A 8520—¾-in. hole. Wt. 5 lbs. . . . **$1.49**

(H) Sickle Holding Attachment. Fits belt-driven Grinders above. Sharpens 6 sections without re-clamping.

84 A 6754—Ship. wt. 5 lbs. 13 oz. **$1.19**

Master Quality — $11.95 Cash, 484 A 6730, $2 A Month

Extra Heavy Duty. Grease sealed ball bearings. Full length adj. tool rests. Center of shaft to base 7¼ in. Shaft 20 by ¾ in. Cast iron pulley 2⅜ by 3-in. diam., for ½-in. "V," round, or 2-in. flat belts. Cast iron base 7½ by 12 in. Gray finish. *Maialable.*

484 A 6730—Grinder Head only. Ship. wt. 40 lbs. . **$11.95**

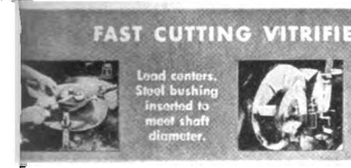
Grinder Head with Guards Only. Large enough for 8-in. diam. wheels. Wt. 44 lbs.

484 A 6731—Cash. . . **$14.45**

Grinder Head, Guards, and Wheels. Same as 484 A 6731 but with 2 Master *Vitrified* wheels, 1¼ by 8 in., 1 fine grain and 1 coarse grain. Wt. 60 lbs.

384 A 6732—Cash. . . . **$17.59**

FAST CUTTING VITRIFIED GRINDING WHEELS



Load centers. Steel bushing inserted to meet shaft diameter.

Dressed on BOTH face and sides—makes them porous, true running.

Wheels are carefully tested for good balance and sound composition.



Wards have conducted many tests on Grinding Wheels to establish the proper grain and size for various grinding jobs. As a result, extra fine grain 200-grit has been selected for Cutlery Sharpening wheels—fine grain 100-grit for Tool Grinding wheels—medium grain 60-grit for General Purpose wheels—and coarse grain 24-grit for Blacksmith wheels. Order the proper grit grinding wheel for your work from the listings below and at right.

Wards Master Quality Wheels are finest quality—fastest cutting—longest wearing—water resistant. Equal to any grinding wheel on the market! Specially selected pure aluminum oxide abrasives are *Vitrified* in an automatically controlled electric furnace for over 5 days. Tested for balance and sound composition. Recommended for hand or power driven grinders.

Wards Lakeside Quality Wheels are fast cutting—long wearing—water resistant—exceeded in these qualities only by Wards Master Quality Wheels above. Aluminum oxide and corundum abrasives Vitrified in an electric furnace for over 5 days. For hand or power driven grinders.

Grinding Wheel Dresser



Huntington pattern. Trues, shapes and removes glaze from grinding wheels. Two sets of hardened steel cutters included.

84 A 6745—Shipping weight 2 lbs. **45c**

Extra Cutters for Dresser described above.

84 A 6746—Shipping weight per set, 3 oz. Per Set. . . . . **5c** 12 Sets for **55c**

Fine Grain Wheels—100-Grit

Master **48c** ½ by 4 in. Lakeside **35c** ½ by 4 in.

Flat Face Tool Grinding Wheels. For grinding tools requiring a sharp edge such as axes, chisels, knives, carpenters' and woodworkers' tools, planes, bits, dies, etc. Fine grain material—use wherever a fine finish is required. See at left for difference between Wards Master Quality and Lakeside Quality grinding wheels. **Be sure to state Art. No., size shaft hole, thickness and diameter of wheel when ordering.** *Maialable.*

Master Quality Grinding Wheels

684 A 8501—Shipped from Stock.

Thickness In.	Diam. 4 in. Wt. Lbs.	Each	Diam. 5 in. Wt. Lbs.	Each	Diam. 6 in. Wt. Lbs.	Each	Diam. 7 in. Wt. Lbs.	Each	Diam. 8 in. Wt. Lbs.	Each
½	1	48c	1	69c	2	82c	.	.	.	.
¾	1	58c	2	79c	2	95c	4	$1.17	.	.
1	1	66c	2	89c	3	$1.10	5	1.32	6	$1.65
1¼	.	.	.	.	.	.	.	.	8	1.95

Lakeside Quality Grinding Wheels

684 A 8518—Shipped from Stock.

Thickness In.	Diam. 4 in. Ship. Wt. Lbs.	Each	Diam. 5 in. Ship. Wt. Lbs.	Each	Diam. 6 in. Ship. Wt. Lbs.	Each
½	1	35c	.	.	.	.
¾	1	40c	2	58c	3	70c
1	2	47c	3	65c	3	80c

Medium Grain Wheels—60-Grit

Master **48c** ½ by 4 in. Lakeside **35c** ½ by 4 in.

Flat Face General Purpose Wheels. For general purpose workshop and machine shop grinding of welds, malleable and wrought iron forgings, cast iron, brass and aluminum castings, etc. Medium grain spacing. See at left for difference between Master Quality and Lakeside Quality. **State Art. No., size shaft hole, thickness and diam. of wheel when ordering.** *Maialable.*

Master Quality Grinding Wheels

684 A 8500—Shipped from Stock.

Thickness In.	Diam. 4 in. Wt. Lbs.	Each	Diam. 5 in. Wt. Lbs.	Each	Diam. 6 in. Wt. Lbs.	Each	Diam. 7 in. Wt. Lbs.	Each
¼	1	38c	.	.	1	69c	.	.
½	1	48c	1	69c	2	82c	.	.
¾	1	58c	2	79c	2	95c	4	$1.17
1	1	66c	2	89c	3	$1.10	5	1.32

Lakeside Quality Grinding Wheels

684 A 8510—Shipped from Stock.

Thickness In.	Diam. 4-in. Wt. Lbs.	Each	Diam. 5-in Wt. Lbs.	Each	Diam. 6-in. Wt. Lbs.	Each
¼	12 oz.	25c	.	.	2	59c
½	1	35c	.	.	3	70c
¾	2	40c	2	58c	3	80c
1	2	47c	3	65c	3	80c

Coarse Grain Wheels—24-Grit

Master **$1.65** 1 by 8 in. Lakeside **$1.25** 1 by 8 in.

Flat Face Blacksmith Wheels. For grinding rough iron and steel castings, surfacing and smoothing scrapers, plow-shares, shovel blades, etc. Wide-spaced abrasive particles give plenty of clearance for cut pieces of metal. See at left for difference between Master and Lakeside Quality. **State Article Number, size shaft hole, thickness and diam. of wheel.** *Maialable.*

Master Quality Grinding Wheels

684 A 8502—Shipped from Stock.

Thickness In.	Diam. 8 in. Wt. Lbs.	Each	Diam. 10 in. Wt. Lbs.	Each	Diam. 12 in. Wt. Lbs.	Each	Diam. 14 in. Wt. Lbs.	Each
1	5	$1.65	.	.	.	.	.	.
1¼	6	1.95	10	$2.85	.	.	.	.
1½	8	2.35	11	3.29	17	$4.45	.	.
2	10	2.85	15	4.29	23	5.59	31	$7.35

Lakeside Quality Grinding Wheels

684 A 8515—Shipped from Stock.

Thickness In.	Diam. 8 in. Wt. Lbs.	Each	Diam. 10 in Wt. Lbs.	Each	Diam. 12 in. Wt. Lbs.	Each	Diam. 14 in. Wt. Lbs.	Each
1	5	$1.25	.	.	.	.	.	.
1¼	6	1.59	10	$2.15	.	.	.	.
1½	8	1.79	11	2.59	17	$3.55	.	.
2	10	2.19	15	3.35	23	4.45	31	$6.25

Extra Fine Grain 200-Grit Wheels

Wards Master Quality Vitrified Cutlery Sharpening Wheels — 75c, ¾ by 4 in.



Flat face. For sharpening the sides of scissor and shear blades, sharpening pocket and table knives, valve seat finishing and offhand finishing of agate. Use where an extra fine cutting edge and a fine finish are required. Specially selected pure aluminum oxide abrasives *Vitrified* in an automatically controlled electric furnace. For hand or power grinders. **State Article Number, size shaft hole, thickness and diam. of wheel.** All sizes are *Maialable.*

684 A 8519—Shipped promptly from Stock.

Thickness In.	Diam. 4 in. Ship. Wt. Lbs.	Each	Diam. 5 in. Ship. Wt. Lbs.	Each	Diam. 6 in. Ship. Wt. Lbs.	Each
¾	1	75c	2	$1.00	2	$1.29
1	1	88c	2	1.15	3	1.48

USE WARDS TIME PAYMENT PLAN

Buy what you need . . . now! Pay a small down payment and the balance by the month. Enjoy the merchandise while you're paying for it. See Inside Back Cover.

Wards Master Quality 60-Grit Round Face Saw Gumming Wheels

Wards Master Quality Bakelite (Resinoid) Bonded Wheels — $1.15, ¼ by 5 in.



Round Face—Medium Grain—60-Grit. For saw gumming, cutting off bar stock of all kinds of steel, and other materials. Also used where a high finish and a thin general purpose Wheel is wanted. More durable than silicate or vitrified wheels. Pure aluminum oxide abrasives bonded with Bakelite. Dressed on both face and sides. Run at speeds recommended in "How to Order" at right to get proper efficiency. **State size shaft hole, thickness, diam. of wheel.**

M284 A 8535—Shipped from Factory near Chicago, usually in 5 additional days. *Maialable.*

Thickness In.	Ship. Wt. Lbs.	4-in. Diam. Each	Ship. Wt. Lbs.	5-in. Diam. Each	Ship. Wt. Lbs.	6-in. Diam. Each	Ship. Wt. Lbs.	8-in. Diam. Each	Ship. Wt. Lbs.	10-in. Diam. Each
1/32	1	70c	2	85c	2	95c	3	$1.20	5	$1.75
1/16	1	80c	2	95c	2	$1.10	3	1.35	5	1.90
⅛	1	95c	2	$1.15	3	1.30	4	1.75	6	2.45
3/16	1	$1.10	2	1.40	3	1.65	5	2.25	6	3.15
¼	1	1.15	2	1.55	4	1.80	5	2.55	7	3.65

Write Wards Sales and Engineering Department for prices on any size of Silicate, Vitrified or Bakelite grinding wheels which we do not list in this Catalog.

Wards Master Quality Vitrified Saw Gumming Wheels — 39c, ¼ by 5 in



Round Face—Medium Grain—60-Grit. Deepens and enlarges the gullets of cordwood, crosscut and circular saws. Also used as a general purpose Wheel where a thin wheel is required. Specially selected aluminum oxide abrasives. **State size shaft hole, thickness and diameter of wheel**

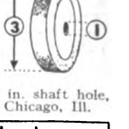
684 A 8525—Shipped from Stock. *Maialable.*

Thickness In.	Ship. Wt. Lbs. Oz.	5-in. Diam. Each	Ship. Wt. Lbs. Oz.	6-in. Diam. Each	Ship. Wt. Lbs. Oz.	7-in. Diam. Each
¼	1	39c	1 4	59c	1 6	74c
⅜	1 1	50c	1 6	69c	1 12	83c
½	1 5	59c	1 10	78c	2	97c

Thickness In.	Ship. Wt Lbs. Oz.	8-in. Diam. Each	Ship. Wt Lbs. Oz.	10-in Diam. Each	Ship. Wt Lbs. Oz.	12-in. Diam. Each
¼	2 2	85c	2 13	$1.15	3 8	$1.55
⅜	2 9	95c	3 8	1.40	4 14	1.88
½	3 2	$1.12	4 8	1.57	6 12	2.00
¾	.	.	6 4	1.89	8 6	2.55

How to Order Wheels

State Article Number; (1) Size Center shaft hole; (2) Thickness; (3) Diameter of wheel. Guard all grinding wheels as per safety code in your State. Do not exceed or fall below by more than 10% of the R.P.M. given in table below. Wheels with shaft holes up to 1½ in. diam. **shipped from Stock;** larger than 1½ in. shaft hole, **shipped from Factory** near Chicago, Ill.



Diam. Grinding Wheel	Recommended Revolutions per Min. Vitrified	Bakelite	Use Diam. Flanges
4 in.	5729	6685	1¼ in.
5 in.	4584	5348	1½ in.
6 in.	3820	4456	2 in.
7 in.	3274	3820	2½ in.
8 in.	2865	3342	3 in.
10 in.	2292	2674	3½ in.
12 in.	1910	2228	4 in.
14 in.	1637	1910	4½ in.

Buy Grinding Wheels on Time Payments. See Inside Back Cover for Terms.

CBA WARDS 1101

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Wards A. C. Electric

ARC WELDERS

Pass Underwriters Burn-Out Test



Operated at full short circuit current for 7 consecutive hours—welders still in perfect operating condition at end of test! Efficiency and safety tests were conducted under the direct supervision of Underwriters' Lab., Inc. and Wards Bureau of Standards.

Facts to Investigate When Buying an Arc Welder

Power Line: Obtain permission from your Power Co. to install a welder before buying. Where portable installation is permitted on 220 and 440 volt welders use with primary attachment cables and accessories shown on page 1092.

Output Rating: The nameplate on approved welders you buy must contain a rating based on a National Standard Test. Frequently rating claimed is greater than nameplate rating on the welder. Such welders cannot pass tests of advertised rating. *Wards advertised rating is the same as that shown on the nameplate.*

Time Rating: Approved welders have a ½ or 1 hour time rating to determine ability of welder to carry time rated output continuously without exceeding a specified temperature at the end of the test. Only the best welders will have this time output rating equal to the maximum welding output claimed.

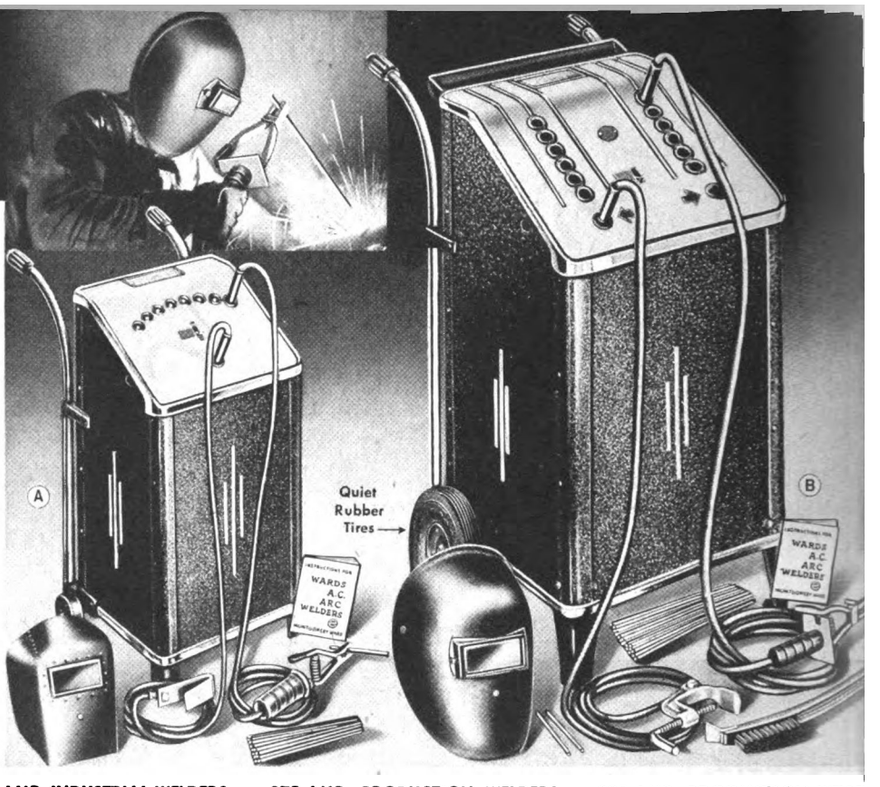
Weight: Copper and iron in our transformer make up about 80% of the shipping weight. Extra copper and iron is used to make the welder more efficient.

Compare weights—buy a welder that draws current for welding—not heating.

Cases: Steel cabinets are magnetic. Lost transformer magnetism reduces efficiency and causes heating. *Non-magnetic wood cases mean lower power bills.*

Insulation: For Class "A" insulation the temperature rise must not exceed 50°C. on a Time Rating test. For spun glass it's 85°C. *Insist on Class "A" for lower operating temperature and current consumption—the same type used on motors.*

Wards Arc Welders have Class "A" insulation. Oversize induction-type transformer and built-in reactance to maintain a stable arc and increase voltage at low heats—easier to strike an arc. Weld to any thickness by running several beads. Steel truck wheels on 85 and 150-amp. welders—rubber tires on 225, 275, and 325-amp. welders. Asbestos lined, ventilated wood cases. Black crackle finish. Each welder has an outlet box with 2 wires for power line and means for ground connections. *All welders below shipped separately by freight or express from Factory near Kansas City, Missouri—usually in 5 additional days. Order from nearest Ward House.*



85-AMP. UTILITY WELDER

Ⓐ **$44.95** Cash — $5 A MONTH — See Back Cover

Welding Output....10 to 85 Amps.
½ Hour Time Rating....80 Amps.
Welding Heats.....8 Taps
Maximum Power Used....1.8 K.W.
Maximum Line Draw....30 Amps
Arc Volts, 20.....Open Volts, 80
Handles up to ⅛-in. Electrodes.

Used by Tinners, Radiator and Fender Shops, etc., where only 110 volt current is available. Welds tinplate, cast iron and steel to 3/16 in. thick. Case 14 by 14½ by 27 in. high.

Accessories: Two 10-ft. cables with electrode holder and U type ground clamp, 2 lbs. steel and cast iron electrodes, 2 plain 6-in. carbons, helmet, instructions. Complete with 10-ft. primary cord, plug and receptacle—ready to plug in. Ship. wt. 170 lbs.

284 A 6594—For 110-volt, 60-cycle, A.C. only.....$44.95

150-AMP. SHOP WELDERS

Ⓐ **$82.95** Cash — $7 A MONTH — See Back Cover

Welding Output..10 to 150 Amps.
½-Hour Time Rating...140 Amps.
Welding Heats.....16 Taps
Maximum Power Used....3.2 K.W.
Maximum Line Draw....30 Amps
Arc Volts, 20.....Open Volts, 80.
Handles up to 3/32-in. Electrodes.

Used by Plumbers and Garage Repair Shops for welding pipe, motor blocks, gears, fenders, etc. Welds or cuts tinplate, cast iron or steel to ⅜-in. Case 14 by 16 by 28½-in.

Accessories: Two 15-ft. welding cables with electrode holder, U-type ground clamp, helmet, 4 lbs. steel and cast iron electrodes, two plain 6-in. carbons, instructions. Ship. wt. 253 lbs.

284 A 6596—For 220-volt, 60-cycle A.C. only.....$82.95
284 A 6600—For 440-volt, 60-cycle A.C. only.....$82.95

225-AMP. INDUSTRIAL WELDERS

Ⓑ **$124.95** Cash — $9 A MONTH — See Back Cover

Welding Output.....10 to 225 Amps.
½-Hour Time Rating.....200 Amps.
Welding Heats.....24 Taps
Maximum Power Used.....6.8 K.W.
Maximum Line Draw.....45 Amps.
Arc Volts, 20.....Open Volts, 80.
Handles up to ¼-in. Electrodes.

Used by Blacksmiths, Welding Shops and large Garages for heavy machinery welding. Welds or cuts tinplate, cast iron or steel up to ½-in. Case 18x18x29½ in.

Accessories: Two 15-ft. welding cables, electrode holder, C-type ground clamp, electrode tray, 5 lbs. steel and cast iron electrodes, wire brush, 2 plain 6-in. carbon rods, welding helmet and instructions. Ship. wt. 322 lbs.

284 A 6597—For 220-volt, 60-cycle A.C. only.....$124.95
284 A 6601—For 440-volt, 60 Cycle A.C. only.....$124.95

275-AMP. PRODUCTION WELDERS

Ⓑ **$149.95** Cash — $10 A MONTH — See Back Cover

Welding Output.....10 to 275 Amps.
½-Hour Time Rating.....250 Amps.
Welding Heats.....24 Taps
Maximum Power Used.....6.5 K.W.
Maximum Line Draw.....60 Amps.
Arc Volts, 25.....Open Volts, 92
Handles up to 5/16-in. Electrodes.

Used in Factories for general high speed production and industrial welding. Welds or cuts tinplate, cast iron or steel up to 5/16 in. thick. Case 17 by 17½ by 40 in. high.

Accessories: Two 20-ft. welding cables, electrode holder, C-type ground clamp, electrode tray, 10 lbs. of steel and cast iron electrodes, wire brush, 2 plain 6-in. carbon rods, welding helmet and instructions. Shipping weight 437 lbs.

284 A 6590—For 220-volt, 60-cycle A.C. only.....$149.95
284 A 6603—For 440-volt, 60-cycle A.C. only.....149.95

325-AMP. PRODUCTION WELDE

Ⓑ **$189.95** Cash — $12 A MONTH — See Back Cover

Welding Output.....10 to 325 Am
1-Hour Time Rating.....300 Am
Welding Heats.....28 Ta
Maximum Power Used.....8.8 K
Maximum Line Draw.....60 Am
Arc Volts, 20.....Open Volts,
Handles up to 5/16-inch Electrodes.

Used by Building Contractors for he structural welding—in Factories for gen production welding. Welds or cuts tinpl cast iron or steel up to ⅝ in. thick. Cas by 26½ by 40½ in. high.

Accessories: Two 20-ft. cables, electr holder, C-type ground clamp, electr tray, wire brush, 10 lbs. steel and cast electrodes, 2 plain 6-in. carbon rods, weld helmet, instructions. Ship. wt. 529 lbs.

284 A 6598—For 220-volt, 60-cycle A.C. only.....$189.
284 A 6602—For 440-volt, 60-cycle A.C. only.....$189.

Welding Accessories



Wards Welding Helmets

Protect face and eyes. Arc lens protected by clear cover lens. Adjustable head harness.

$2.95 584 A 6579

Fiber Welding Helmet

Ⓒ No. 10 green arc-proof glass lens. Wt. 2 lbs.

584 A 6579—Each.....$2.95

Molded Bakelite and Fiber Welding Helmet.

Ⓓ Will not warp—heatproof—shockproof. Meets Federal and Navy spec. No. 12 green arc-proof lens. Ship. wt. 2 lbs. 8 oz.

84 A 6584—Each.....$4.98

Wire Brush

23¢ Each

Designed and especially made for cleaning the work preparatory to welding, and for cleaning each bead. Stiff wire bristles. Metal scraper on end of wood handle. Include one in your credit order. Ship. wt. 12 oz.

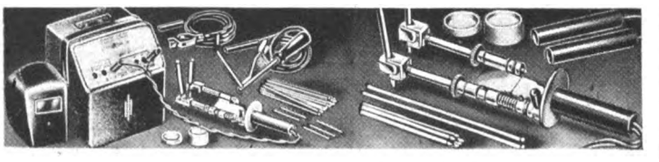
84 A 6588..23c

Welders' Gloves

Highest quality soft and pliable split horsehide—strongly sewn seams. Double back, thumb and palm patch. Left hand glove has a piece of asbestos sewn into the back to act as a shield against heat. **Extra large size 12 only.** Ship. wt. pair, 1 lb.

$1.95 Pair

84 A 6589—Pair.....$1.95



50-Amp. Portable Arc Welder

For light welding, brazing, and soldering done by Tinners, Radiator, Battery and Fix-it Shops. Welding output 10 to 50 amps. Line draw 25 amps. Maximum power used 1.7 K.W. Arc volts 20—Open volts 75. Handles up to 3/32-in. electrodes. Class "A" insulation. Welds up to ⅛-in. thickness. Case 10½ by 11½ by 14 in.

$29.95 Cash

$4 a Month — See Back Cover

Accessories: Twin Carbon Arc Jr. Torch (takes up to 3/16-in. coppered cored carbons); electrode holder and ground clip, both with 6-ft. cables; 1 plain and 6 copper cored 6-in. carbons; two 12-in. bronze brazing rods; 12-in. cored solder; ½-lb. electrodes; 1-oz. brazing flux; welding helmet and instructions. 6-ft. cord and plug. **For 110-volt 60-cycle A.C. Shipped from Factory** near Kansas City, Mo.—usually in 5 additional days. *Not Mailable.*

284 A 6593—Ship. wt. 71 lbs.....$29.95

Electric Arc Twin Carbon Torch

Use with any A.C. Arc Welder. Creates a flame like an oxy-acetylene welding torch for pre-heating, brazing, hard surfacing and soldering. Makes possible welding up to ⅛ in. of aluminum and other non-ferrous metals formerly possible only with gas torches. Torch 13½ in. long with 10 ft. cables—handles carbons up to ⅜ in. diam. Use with 84 A 6587 copper cored carbons below at left.

$9.45

Accessories Included: 12 assorted, 6-in. copper-coated, cored carbon rods; two ⅛ by 18-in. bronze brazing rods; 1-oz. box of brazing flux and instructions.

IMPORTANT: *Be sure to specify Model Number and make of arc welder with which you plan to use this torch. Mailed from Factory* near Kansas City, Mo.—allow 5 days.

M284 A 6585—Ship. wt. 6 lbs.....$9.45



For Garages, Radio Shops, etc.

New! To use just plug in. 3 **heat taps.** Maximum line draw 3 amps. Maximum output 65 amps. Case 8 by 7½ by 8¼ in. high.

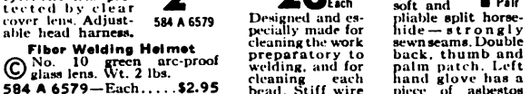
$14.9 Ca

$2.50 a Mon — See Back Ca

Set Includes: 7-ft. 14-gauge primary le wire with plug; 8-ft. welding cable with c bon holder—takes ¼ and ⅜-in. carbo 8-ft. ground cable with clip.

Accessories: ¼ by 6-in. plain carbon; ⅜ 6-in. coppered cored carbon; two ⅛ by 1 brazing rods; 1-oz. brazing flux; six lengt ⅛ by 12-in. acid core solder. **For 110-vo 60-cycle A.C. Shipped from Facto** near Kansas City, Mo.—allow 5 days.

M284 A 6586—Ship. wt. 42 lbs. $14.



A. C. or D. C., Coated Arc Welding Electrodes

For general purpose welding in all positions on A.C. or D.C. Arc Welding machines. Used for straight or reversed polarity. Conforms to American Welding Society Specifications. All rods shipped at once from Stock. **State Article Number, diameter and quantity wanted.** *Mailable.*

584 A 6574—For Mild Steel Welding. These rods give better quality, more ductile welds. Make it easier to weld in difficult positions. They're best for use on galvanized or painted metal where it is difficult to strike and maintain an arc. Order from table below. Buy in 50-lb. lots and save money.

14¢ lb. — 3/16-in. — In 50-lb. Lots

Diam	Length In.	Ship Wt	5 Lbs. for	Ship. Wt.	25 Lbs. for	Ship. Wt.	50 Lbs. for
1/4 In.	Abt. 18	6 lbs.	$2.20	27 lbs.	$10.00	53 lbs.	$18.00
3/32 In.	Abt. 18	6 lbs.	1.40	27 lbs.	6.00	53 lbs.	10.00
1/8 In.	Abt. 14	6 lbs.	1.10	27 lbs.	4.50	53 lbs.	8.00
5/32 In.	Abt. 14	6 lbs.	1.00	27 lbs.	4.25	53 lbs.	7.50
3/16 In.	Abt. 14	6 lbs.	90c	27 lbs.	4.00	53 lbs.	7.00

584 A 6572—For Mild Steel Welding. High speed production electrodes. Recommended for single pass welding and poor fit up. Best for 220 or 440-volt welders, or any A.C. Arc Welders that are approved by Underwriters' Laboratories, Inc. Also for D.C. Arc Welders on straight polarity.

8¢ lb. — 3/16-in. — In 50-lb. Lots

Diam.	Length In	Ship Wt	5 Lbs. for	Ship. Wt.	25 Lbs. for	Ship. Wt.	50 Lbs. for
3/32 In.	Abt. 18	6 lbs.	$1.10	27 lbs.	$4.50	53 lbs.	$7.00
1/8 In.	Abt. 14	6 lbs.	80c	27 lbs.	3.00	53 lbs.	5.00
5/32 In.	Abt. 14	6 lbs.	70c	27 lbs.	2.75	53 lbs.	4.50
3/16 In.	Abt. 14	6 lbs.	60c	27 lbs.	2.50	53 lbs.	4.00

584 A 6577—For Cast Iron Welding. Order from table below.

Diam	Length In.	Ship Wt	5 Lbs. for	Ship Wt	25 Lbs. for	Ship. Wt.	50 Lbs. for
3/32 In.	Abt. 18	6 lbs.	$1.30	27 lbs.	$5.50	53 lbs.	$9.00
1/8 In.	Abt. 14	6 lbs.	90c	27 lbs.	3.50	53 lbs.	6.00

Copper Coated and Plain Electric Arc Carbon Rods

Copper Coated—Cored to produce a stable arc. Use with any Electric Arc Twin Carbon Torch.

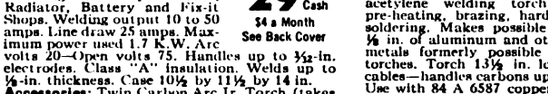
Size In.	Wt ea.	Each	10 for
¼ by 6	2 oz.	9c	75c
5/16 by 6	2 oz.	10c	80c
⅜ by 6	2 oz	11c	98c

84A6587—State size, quantity.

Plain. Use with electrode holder for welding and cutting, and with M284 A 6586 Outfit above at right. ¼ by 6-in. Wt. each 2 oz.

84 A 6578—Each...7c; 10 for.....55c

1102 WARDS 2BA



Save ⅓ at Wards on Mild Steel Bars

Hot rolled—for hot forging or cold forming. Use for steel framework, machinery repair, concrete reinforcing, bracing, etc. Buy in 100 lb. lots and save freight charges. *Sold in 16-ft. lengths only*—no random lengths and wasted ends.

16-ft. Bar

16¢ ¼-in. Round

FLAT BARS—16-ft. Lengths

State Art. No. and width. *Not Mailable.*

184 A 6492 ½ Inch Thick			184 A 6493 5/16 In. Thick		184 A 6494 ⅜ In Thick	
Width In.	Ship. Wt	16-Ft. Bar	Ship. Wt	16-Ft. Bar	Ship. Wt	16-Ft. Bar
¾	6 lbs.	28c	8 lbs.	45c	11 lbs.	55c
1	7 lbs	33c	9 lbs.	55c	13 lbs.	59c
1½	10 lbs	50c	16 lbs.	80c	17 lbs.	88c
2	13 lbs.	65c	20 lbs.	$1.00	26 lbs.	$1.19

184 A 6496 ⅜ Inch Thick			184 A 6497 ½ In. Thick	
Width	Ship Wt	16-Ft. Bar	Ship. Wt.	16-Ft. Bar
1½ in.	30 lbs.	$1.35	41 lbs.	$1.69
2 in.	40 lbs.	1.75	54 lbs.	2.30
3 in.	60 lbs.	2.75	80 lbs.	3.45

ANGLE BARS—16-ft. Lengths

Each piece made with equal sides. State Art. No. and width legs. *Not Mailable.*

Art. No. 184 A 6485 Thickness ⅛-Inch			184 A 6486 3/16-Inch		184 A 6487 ¼-Inch	
Width Legs, In.	Wt. Lbs	16-Ft Bar	Wt. Lbs	16-Ft Bar	Wt. Lbs	16-Ft. Bar
1 by 1	13	75c	19	$1.10	..	..
1½ by 1½	16	95c	24	1.40	31	$1.80
1½ by 1½	20	$1.15	29	1.65	37	2.15
2 by 2	..	..	..	..	51	2.85

ROUND BARS—16-ft. Lengths

184 A 6490—State diameter wanted. *Not Mailable.*

Diam. In.	Ship Wt. Lbs.	16-Ft. Bar Each	Diam. In.	Ship Wt. Lbs	16-Ft. Bar Each
¼	3	16c	½	11	47c
5/16	4	22c	⅝	17	73c
⅜	6	29c	¾	24	$1.02
7/16	8	39c	..	..	..

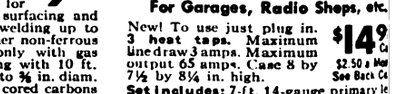
SQUARE BARS—16-ft. Lengths

184 A 6489—State size wanted. *Not Mailable.*

Size	Ship. Wt.	16-Ft. Bar
¼ in.	4 lbs.	24c
5/16 in.	8 lbs.	43c
⅜ in.	14 lbs.	67c
7/16 in.	21 lbs.	95c
½ in.	31 lbs.	$1.39

"P" MEANS PITTSBURGH

"P" before Art. No. (Example P484 A 6205 Chain Hoist on opposite page) means item is also shipped from Pittsburgh. Mail your order to nearest House.



Round, Bell Bottoms give greater bearing surface than square bottom jack screws.

Screw Type-With Regular or Ball Bearing Cap

95

1 by 6 i

484 A 62

Ⓔ For shoring buildings, lifting tractors, bracing timbers, etc. Strong semi-steel base. Drop forged steel turn screw with Acme square threads. Malleable iron swivel cap.

484 A 6201—Ball Bearing Swivel Cap. Lift heavy loa easier because there's less friction—ball bearings save worl

484 A 6200—Regular Swivel Cap.

State Article Number, screw diameter and height o stand wanted. *All sizes Mailable.*

Screw Diam. In.	Height Stand In.	Height Closed In.	Height Open In.	Capacity Tons	Ship. Wt. Lbs.	484 A 6201 Ball Bearing Cap	484 A 6200 Regular Cap
1	6	8½	13¼	5	6	$1.19	95c
1¼	8	10½	17½	10	13	2.19	$1.95
1¼	8	10½	17	12	14	2.79	2.39
1½	10	12½	20½	12	18	3.09	2.69
1½	12	14¾	25	12	20	3.45	3.10
2	8	11½	16¼	20	20	3.95	3.45
2	12	15½	24½	20	27	4.95	4.38

Ratchet Screw Lift—Extra Heavy Duty

$6.95

Ⓕ For faster, easier lifting of extra heavy loads. 25-ton capacity. Swivel cap replaceable. Body and cap semi-steel. Handle socket malleable iron. 2-in. diam. steel screw, square cut threads. Ht. opened 22 in.; closed 15 in. Rise of screw 7 in. Length screw 10 in. Black japanned finish.

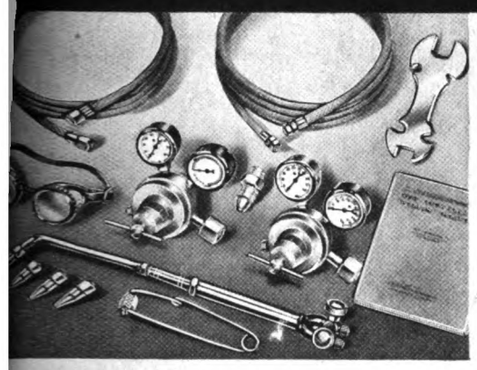
484 A 6202—*Mailable.* Ship. wt. 41 lbs.....$6.95

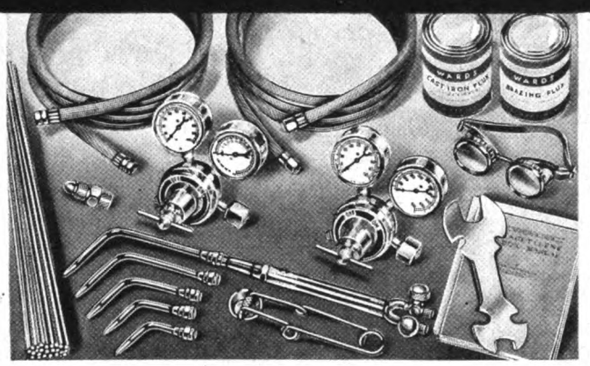
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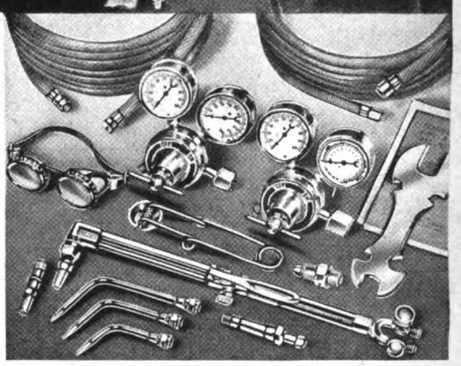
WARDS LAKESIDE AND MASTER OXY-ACETYLENE

WELDING AND CUTTING EQUIPMENT

APPROVED BY UNDERWRITERS' LABORATORIES, INC.







Wards Lakeside Quality Welding Outfit

...ally sells elsewhere for about $50! For garages repair shops. Best for welding or brazing sheet ...n and lead filling dented auto bodies and ...rs. Welds up to 1½-in. metal. Torch and ...ators labeled and listed by Underwriters' ...oratories, Inc. Complete outfit includes:

$31.25 Cash
$5 A MONTH
See Back Cover

...ding Torch: Fixed length. Equal pressure, ...flash, 17-in. length overall. Cuts steel up to 10-in. thick with 84 A ... cutting attachment listed at right below.

...r Welding Tips. Solid drawn copper. Sizes B1, B3, B5 and B7.

...gen Regulator. Forged brass bonnet with large 3-in. diaphragm. ...rt inlet connection. 2-in. gauges with 80 and 3000-lb. dials.

...tylene Regulator. Same as oxygen but has 50 and 500-lb. dials. ...h adaptor for all standard acetylene welding cylinders.

...ding Hose. Single braid corrugated live rubber—won't crush ...d Green 12½-ft. lengths. 3/16-in. inside diameter.

...essories. Torch Lighter, Navy Spec. Goggles, all-purpose steel ...nch and 172-page illustrated Oxy-Acetylene Instruction Book.

...A 6520—Shipping weight 17 lbs. $31.25

...plete outfit *as illustrated above*. .....

Lakeside Quality Welding Parts and Accessories

...A 6523—Oxygen Regulator. Same as described in Lakeside ...ding outfit above. Gauge shows cu. ft. contents of tank ...estimating job costs. Shipping weight 5 lbs. 8 oz. Each... $13.95

...A 6522—Acetylene Regulator. Same as described in Lakeside ...ding outfit above. With adaptor to fit all standard ...tylene welding cylinders. Ship. wt. 5 lbs. 12 oz. $11.95

...A 6521—Welding Tips. Fit Lakeside torch only. Sizes B1, ...B5 and B7. Solid drawn copper. **State size.** Wt. 6 oz. Ea.. $1.10

...A 6568—Torch Lighter. With 3 flints. Ship. wt. 3 oz..... 39c

DON'T DELAY—BUY TODAY ON WARDS TIME PAYMENT PLAN

Don't let lack of ready cash prevent you from getting the welding equipment you need. Buy it now—pay a small amount down, the rest in convenient monthly payments . . . as you use the merchandise. See Inside Back Cover for complete Terms.

Wards Master Quality Welding Outfit

No EXTRA mixing chamber needed for large size welding tips—nozzle type welding tips have 4 times flame range of ordinary tips

Usual $75 Quality! Torch and regulators labeled and listed by Underwriters' Lab., Inc. Welds up to 2-in metal. Copyrighted "On-Off" feature on regulators exclusive with Wards. Larger Capacity regulators—diaphragm 6½ sq. in. Large 2¾-in. gauges have easy-to-read dials. Complete outfit includes:

$44.95 Cash
$5 A MONTH
See Back Cover

Welding Torch. Variable length. Equal pressure. Non-flash mixer handles *all* size tips. Bronze forged Black ribbed handle. Length 14 to 19 in. Cuts steel with 84 A 6535 cutting attachment below at right.
Five Welding Nozzle Tips. Solid drawn copper. Will not backfire from excessive heat. Swivel type—weld in any direction. Seats fully protected. Sizes T-1, T-3, T-5, T-7, T-9. Lengths 3½, 4, 5½, 7 and 8½ in.
Oxygen Regulator. Forged polished brass. 2¾-in. 100 and 3000-lb. gauges. Shows cu. ft. contents of tank. "On-Off" feature. Double cone inlet screens.
Acetylene Regulator. Same as oxygen regulator but has 50 and 500-lb. gauges. With adaptor for all standard acetylene welding cylinders.
Welding Hose. Double braid corrugated live rubber—won't crush. Red and Green 12½-ft. lengths. ¼-in. inside diam. Order extra lengths below.
Rods. 21 assorted as follows: 10 coppered steel and 8 cast iron welding rods—3 Tobin bronze brazing rods—Diams. 5/16 to ¼-in.—Lengths about 18 in.
Accessories. 1-lb. can each Cast Iron and Brazing Flux, Torch Lighter, No. 5 shade Navy Spec. Goggles, Wrench, 172-page illustrated Oxy-Acetylene Welding Book and 50-page International Acetylene Manual.
P484 A 6530—Complete outfit. Shipping weight 27 lbs..... $44.95

Wards Master Quality Welding Parts and Accessories

84 A 6531—Welding Torch. Same as in above outfit, but without tips. Use with No. 84 A 6532 tips listed below. Ship. wt. 2 lbs. 2 oz..... $13.45
84 A 6532—Welding Nozzle Tips. Same as in above outfit. Sizes T-1, T-3, T-5, T-7, T-9. **State size.** Ship. wt. each, 10 oz. Each..... $1.50
84 A 6528—Acetylene Regulator. Master Quality, same as described in Master Quality outfit above. "On-Off" feature. Ship. wt. 7 lbs..... $14.95
84 A 6529—Oxygen Regulator. Master Quality, same as described in Master Quality outfit above. "On-Off" feature. Ship. wt. 7 lbs..... $16.95
Welding Hose. With swivel fittings and connector to extend length of your present hose. Inside diam. ¼ in. Ship. wts. 2 lbs. 8 oz. and 4 lbs. 8 oz.
84 A 6533—Green Oxygen Hose. 12½-ft. lgth..$2.25; 25-ft. lgth....$3.39
84 A 6534—Red Acetylene Hose. 12½-ft. lgth.. 2.25; 25-ft. lgth.... 3.39
84 A 6566—Welding and Cutting Goggles. Same as in above outfit. No. 5 shade Green lens with clear cover lens. Adj. nose piece. Wt. 8 oz. $1.65
84 A 6573—Flux. 1-lb. cans. **Cast Iron** for cast iron welding. **Brazing** for Brass or Bronze rods. **State choice.** Ship. wt. 1 lb. 8 oz. Per can..... 39c

Wards Master Cutting and Welding Outfit

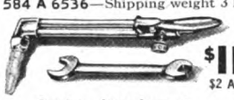
Usual price elsewhere about $105. Welding torch, cutting attachment and regulators labeled and listed by Underwriters' Laboratories, Inc. A combination cutting and welding outfit—allows you to do *both* cutting and welding—has double utility. Outfit includes:

$58.95 Cash
$6 A MONTH
See Back Cover

Welding Torch. Same as in Master Quality Outfit at left. Variable length. Equal pressure. Non-flash.
3 Welding Nozzle Tips. Solid drawn copper. Sizes T-3, T-5, T-7.
Cutting Attachment. Same as 84 A 6535 described below.
2 Cutting Tips. Solid drawn copper. Sizes C-1 and C-3.
Oxygen Regulator. Same as in Master Welding Outfit at left.
Acetylene Regulator. Same as in Master Outfit at left.
Hose. 25-ft. lengths—red and green. ¼-in. inside diam.
Accessories. Torch Lighter, Welders' Goggles, Steel Wrench, 172-page Oxy-Acetylene Welding Instruction Book and 50-page International Acetylene Manual. Ship. wt. 28 lbs.
484 A 6525—Complete Outfit. Cash Price..... $58.95

Underwriters' Approved Cutting Torch

Pictured in Master Cutting and Welding Outfit above. Overall length 17½ in. No tips—order No. 84 A 6537 tips below.
584 A 6536—Shipping weight 3 lbs. 10 oz. Each..... $19.98



$11.75 Cash
$2 A MONTH



$1.98 Each

Cutting Attachment
Converts Master or Lakeside welding torches into cutting torches. Cuts steel up to 10 in. thick. *Listed by Underwriters'*. With wrench. Without cutting tips—order tips at right—order the right size tip for your job. Length 10½ in. See Inside Back Cover for Time Payment Terms.
84 A 6535—Shipping weight 2 lbs. 8 oz..... $11.75

Cutting Tips. Solid drawn copper. Fit 584 A 6536 Cutting Torch and 84 A 6535 Cutting Attach. Wt. 6 oz.
84 A 6537—State size wanted. Each. $1.98

Tip Size	Capacity Cut
C-1	To 1 in.
C-2	To 2½ in.
C-3	To 6 in.
C-4	To 10 in.



Oxy-Acetylene Rods

Cast Iron, Coppered Steel and Bronze

...ate Article Number ...d Diameter wanted.
...A 6580—**Cast Iron ...lding Rods.** Square ...pe. Machinable. Ship. ... per pkg. 6 lbs.

...iam.	Length	No. Rods	5 Lb.
...6 in.	24 in.	About 22	80c
... in.	24 in.	About 12	75c

...A 6581—**Coppered ...d Steel Welding ...ds.** Round type. Ship. ... per pkg. 6 lbs.

...iam.	Length	No. Rods	5 Lb.
...6 in.	36 in.	About 164	75c
... in.	36 in.	About 40	60c
...6 in.	36 in.	About 18	55c
... in.	36 in.	About 10	50c

84 A 6582—Bronze Brazing Rods. For oxy-acetylene torch, electric arc carbon torch, and electric and oxy-acetylene brazing outfits. Ship. wt. pkg., 1 lb. 8 oz.

Low As **40c** per lb. Bronze

Diam.	Length	No. Rods	1 Lb.
1/8 in.	36 in.	6	45c
5/16 in.	36 in.	3	40c

584 A 6565—Welding Rod Assortment. 110 rods made up of 20 Cast Iron, 82 Steel and 3 Bronze. Diam. 3/32 to ¼ in. 18-in. lengths. Ship. wt. 11 lbs.
Assortment..... $2.25



Brazing Outfit

For Soldering and Brazing

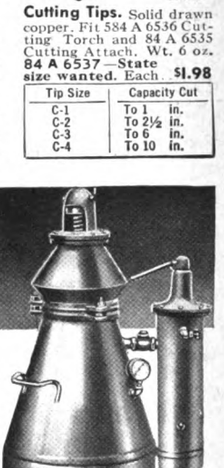
Uses acetylene only—no oxygen needed. Velocity of the acetylene injects necessary amount of air to cause efficient combustion. Fits Acetylene Regulators, Prest-O-Lite and Acetylene tanks. Used by laboratories, tin-smiths, painters and small shops for soldering, brazing, paint removal, etc., not requiring the high temperature of an oxy-acetylene flame. Complete Outfit includes: 1 soldering copper, 1 paint burning tip, hose and tank connections, 5 feet of 3/16-in. rubber hose, tip cleaner and instructions for using. Torch handle is 6 in. long. Include this outfit on your Time Payment Order—See Inside Back Cover for details. Wt. 2 lbs. 2 oz.

$5.59

84 A 6539—Complete Outfit.. $5.59

NEW! Portable Acetylene Generators

- Listed and approved by the Underwriters' Laboratories, Inc.
- Save you about 3c per cubic foot over cylinder gas!
- Eliminate cylinders—no rental or transportation charges.



Produce acetylene gas at about 1¼c per cubic foot! Calcium carbide in 14 N.D. (size recommended for most Acetylene Generators) and water will give all the pure acetylene gas you want. Easy to use—once charged, operation is automatic. Supplies gas for any make oxy-acetylene torch. Pressure regulating mechanism specially designed to operate without friction—produces more uniform pressure at all times. Pressure easily controlled by screw in hopper top. Sludge valve opens inwardly—dislodges accumulated sludge and forces generator to draw instantly. Inside easily accessible for cleaning.

$64.45 Cash
284 A 6515
$6 a Month
See Back Cover

Equipped with interlocking bar as a safety feature—makes certain no pressure exists in generator before carbide hopper is removed—insures good operating condition of blow-off valve. Shells are a heavier gauge steel than required by insurance company standards. **Shipped from Factory** near St. Paul, Minnesota—allow 5 days. With instructions for operating. **State article number wanted.**

Article Number	Carbide Capacity	Water Capacity	Max. Gas Output Per Hour	Diam. of Shell	Height Overall	Ship. Wt.	Cash Price
284 A 6515	15 lbs.	17 gals.	30 cu. ft.	17 in.	47 in.	114 lbs.	$64.45
284 A 6516	30 lbs.	33 gals.	60 cu. ft.	20 in.	59 in.	140 lbs.	79.95

Calcium Carbide for Above Generators. 14 N.D. size. In 100-lb. drums. Wt. 108 lbs.
284 A 6517—Shipped from Factory near Chicago; Baltimore, Md.; or Springfield, Mass.—allow 5 days. **100 lb. Drum**..... $5.95



MASONS' TOOLS

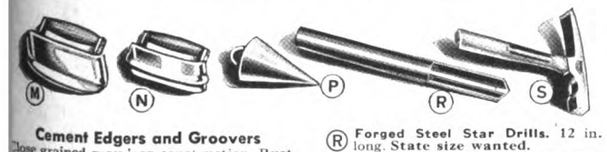
(G) 584 A 2672—Mason's Tool Bag. Heavy, long wearing No. 8 duck. ...-in. reinforced bottom. Steel frame. ...side pocket. Leather straps. ...ith lock and key. Ship. wt. 5 lbs. $2.55

(H) 84 A 2631—Plasterers' Hawk. ...12-ga. aluminum top. 13 by 13 in. ...ubber callous preventer. Wood ...andle. Wt. 2 lbs. 8 oz..... $1.75

(J) Plastering Trowels. Cincinnati ...Pattern. Ship. wt. ea., 1 lb. 8 oz.
...4 A 2632—**Master Quality.** 11-inch ...olished, forged steel blade. ...traight-grained hardwood handle. $1.59
...4 A 2634—**Lakeside Quality.** 11-in. ...olished, forged steel blade. Select ...easoned hardwood handle..... 75c

(K) Brick Trowels. Philadelphia Pattern.
84 A 2627—Master Quality. 1-pc. tempered steel blade—taper ground, polished finish. **State choice** of 10½ or 11-in. blade. Leather handle. Ship. wt. 1 lb. 8 oz. Each..... $1.69
84 A 2629—Lakeside Quality. 10½-in. forged steel blade. Hardwood handle. Ship. wt. 1 lb. 8 oz. Each..... 75c

(L) Lakeside Quality Pointing Trowels
Tempered, polished, forged steel blade, carefully taper ground. Hardwood handles. See Inside Back Cover for complete Time Payment Terms. **State size wanted.**
84 A 2642—Ship. wt. each 9 oz.
4-in. blade. Each..... 33c
5-in. blade. Each..... 37c



Cement Edgers and Groovers
...Close grained gray iron construction. Rust-...esisting nickel plated finish. Wood handle. ...Ship. wt. ea. 1 lb. 6 oz.
(M) 84 A 2686—Cement Edger. Size 6 by 2¾ inches. Each..... 35c
(N) 84 A 2680—Cement Groover. Size 5¾ by 2½ inches. Each..... 35c
(P) 84 A 2637—Plumb Bob. Cast iron, nickel plated. Wt. 6 oz. Each..... 10c

(R) Forged Steel Star Drills. 12 in. long. **State size wanted.**

Diam. In.	¼	⅜	½	¾	1
Ship. Wt.	4 oz.	7 oz.	9 oz.	1¼ lbs.	1½ lbs.
84 A 2665	18c	18c	23c	33c	43c

(S) 84 A 2663—Master Brick Hammer. 8-in. 24-oz. forged steel head. 11-in. hickory handle. Wt. 2 lbs. 95c

SAVE YOUR BACK—USE A HOIST FOR HEAVY LIFTING



Self-Locking ROPE HOISTS

95c P584 A 6166 Less Rope

- **Upper and lower blocks are steel strapped for strength and durability.**
- **Double sheaves mounted on cold rolled steel axles—revolve on easy running roller bearings.**

Self-locking—non-slipping. Extra strong drop forged steel swivel hooks, locks and unlocks with one rope. Rust-resisting finish. Instructions for reeving rope into upper and lower blocks included.

Hoist with 50 Ft. of Manila Rope

Article Number	With Rope Size	Capacity in Lbs.	Ship. Wt. Lbs.	Hoist With Rope
P584A6169	3/8 in.	500	8	$1.45
P584A6170	½ in.	1000	11	2.60
P484A6171	5/8 in.	2000	16	4.25

Hoist Only—Without Rope

Article Number	Takes Rope	Capacity in Lbs.	Ship. Wt. Lbs.	Without Rope
P584A6166	3/8 in.	500	5	95c
P584A6167	½ in.	1000	8	$1.85
P584A6168	5/8 in.	2000	12	2.87



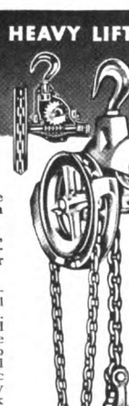
Differential CHAIN HOISTS

$8.45 ¼ Ton

- **New Departure Ball Bearings in lower load hook.**
- **Heavily ribbed, reinforced malleable iron frame for extra strength.**

Easy working . . . dependable . . load will not slip and run down. Heavy gray iron load sheaves—malleable iron yokes—heavy drop forged, heat treated swivel hooks. Electric welded, carefully tested load chain. Slack chain on either side for lifting and lowering. Locks automatically at any point—cannot run down. Rust-resisting finish. Include on your Time Payment order. *Three smallest sizes Maitable.* Total length endless chain: ¼ Ton, 22 ft.; ½ Ton, 26 ft.; 1 Ton, 30 ft. and 1½ Ton, 33 ft.

Article Number	Cap. in Tons	Lift Feet	Ship. Wt.	Price Each
P484A6205	¼	6	27 lbs.	$8.45
P484A6206	½	7	30 lbs.	10.45
P484A6207	1	8	59 lbs.	14.95
P184A6208	1½	8½	85 lbs.	20.45



Screw-Geared CHAIN HOISTS

$29.95 Cash ½-Ton $4 a Mo.

- **Requires about ½ the effort to lift a 1-ton load as compared to a differential hoist—1 man to 3 men!**
- **New Departure ball bearings in lower load hook swivel—permit easy swiveling of load without twisting chain.**

Easy lifting and close head room not possible with differential type hoists! All working parts packed in grease—sealed in malleable iron housing. Heavy gray iron sheaves. Phosphor bronze worm wheel. Heat treated steel worm screw and shaft. Electrically welded, heat treated and proof tested chain. Rust-resisting finish. ½ and 1-ton sizes. *Maitable.* See Inside Back Cover for Time Payment Terms.

Article Number	Cap. in Tons	Lift Feet	Ship. Wt.	Price Each
484 A 6210	½	8	45 lbs.	$29.95
484 A 6211	1	8	68 lbs.	39.95
184 A 6212	2	9	105 lbs.	52.45

Use Your Credit

CBA WARDS 1103

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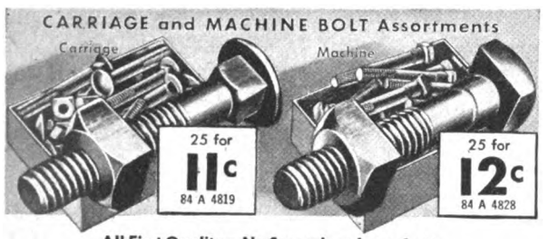
"Handy Man" Repair Assortment



More pieces—and a greater variety of sizes—than any assortment we've seen! Covers almost every repair need—and compared to prices elsewhere, Wards save you up to 50%. All first quality—no seconds. Provides just the right bolt, nut, screw, washer, cotter pin or rivet when you need it. Complete assortment includes 100 carriage bolts with nuts (same as 84 A 4822 below); 100 machine bolts with nuts (same as 84 A 4825 below); 100 assorted stove bolts with nuts; about 100 assorted square nuts; 1-lb. assortment of wood screws; 2½-lb. assortment of steel washers; 39 assorted lock washers; 200 assorted cotter pins; 50 assorted tubular rivets; 50 assorted split rivets; ½-lb. package No. 9 copper rivets with burrs in assorted lengths from ⅜ to ¾ in. Include this assortment on your Time Payment Order.

484 A 4820—Complete Repair Assortment. Ship. wt. 26 lbs..... **$3.98**

CARRIAGE and MACHINE BOLT Assortments



All First Quality—No Seconds or Imperfects

U.S. Standard, full size perfect rolled threads with square nuts. Strong, durable and bargain priced! You get 25 bolts in 4 lengths, with nuts. Natural finish. All are ¼-in. diameter. Lengths range from 1 to 2½ in.

Carriage Bolt Assortment
St'd. size shank with square neck under oval head. Ship. wt. 1 lb.
84 A 4819—25 Bolts with Nuts. **11c**

Machine Bolt Assortment
Standard size shank with square head and rolled threads. Ship. wt. 1 lb.
84 A 4828—25 Bolts with Nuts. **12c**

The following assortments are same quality as above but consist of ⅛, 5/16, and ⅜-in. diam. sizes. Lengths range from 1½ to 5 inches. Natural finish.

Carriage Bolt Assortments
13 Sizes. Ship. wt. 3 lbs. 12 oz.
84A4824—50 Bolts with Nuts. **35c**
18 Sizes. Ship. wt. 6 lbs.
84A4822—100 Bolts with Nuts. **60c**

Machine Bolt Assortments
14 Sizes. Ship. wt. 3 lbs. 8 oz.
84 A 4826—50 Bolts with Nuts **38c**
16 Sizes. Ship. wt. 6 lbs.
84A4825—100 Bolts with Nuts. **65c**

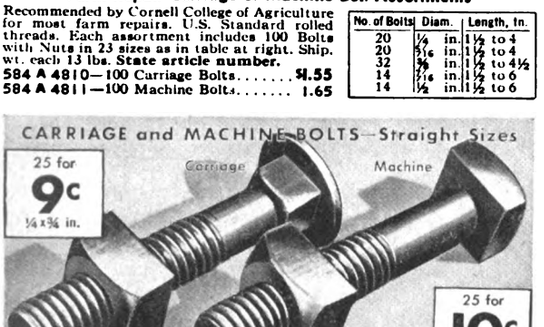
Farm Repair Carriage or Machine Bolt Assortments

Recommended by Cornell College of Agriculture for most farm repairs. U.S. Standard rolled threads. Each assortment includes 100 Bolts with Nuts in 23 sizes as in table at right. Ship. wt. each 13 lbs. **State article number.**

584 A 4810—100 Carriage Bolts..... **$1.55**
584 A 4811—100 Machine Bolts..... **1.65**

No. of Bolts	Diam.	Length, In.
20	¼ in.	1½ to 4
20	5/16 in.	1½ to 4
32	⅜ in.	1½ to 4½
14	5/16 in.	1½ to 6
14	½ in.	1½ to 6

CARRIAGE and MACHINE BOLTS—Straight Sizes



Finest Quality—Perfectly Threaded—Nuts Attached

Full diameter—full length—with deep-cut, perfect U.S. Standard threads. With square nuts. Uniform high quality and tensile strength. Oil finished to prevent rusting. *Nuts attached to each bolt—means a nut for every bolt.*

Carriage Bolts—Standard size shank with square neck under oval head. U.S. Standard rolled threads are clean—easy to run up nuts. Natural oil finish.

Machine Bolts—Cut threads—better than rolled threads for machine bolts. Full diameter for the entire length—eliminates play. Natural oil finish.

Be sure to state Article Number, quantity, and length wanted.

Diam. ¼-in.—Package of 25 Bolts

Length In.	Ship. Wt. Lbs.	Ship. Wt. Oz.	Carriage 84A4800	Machine 84A4795
⅜		12	9c	10c
1		12	10c	11c
1¼		14	11c	12c
1½	1		12c	13c
1¾	1	2	13c	Not carried
2	1	4	14c	15c
2¼	1	5	15c	17c
2½	1	6	16c	18c
2¾	1	6	17c	Not carried
3	1	8	18c	19c
3¼	1	8	19c	Not carried
3½	1	8	20c	21c
4	1	10	22c	24c
4½	1	12	23c	Not carried
5	1	14	24c	26c
6	2	4	26c	30c

Diam. 5/16-in.—Package of 25 Bolts

Length In.	Ship. Lbs.	Ship. Wt. Oz.	Carriage 84A4801	Machine 84A4796
1	1	6	14c	15c
1¼	1	8	15c	Not carried
1½	1	8	16c	17c
1¾	1	10	17c	Not carried
2	1	14	18c	19c
2¼	1	14	20c	Not carried
2½	2	2	21c	22c
2¾	2	2	22c	Not carried
3	2	4	23c	26c
3¼	2	6	25c	Not carried
3½	2	8	26c	28c
4	2	10	27c	30c
4½	3		30c	32c
5	3	2	32c	35c
5½	3	8	34c	Not carried
6	3	8	36c	39c

⅜-in. Diam. Bolts

Length In	Carriage Bolts 84 A 4802 5 for	25 for	Ship Wt 25 Bolts Lbs.	Oz.	Machine Bolts 84 A 4797 5 for	25 for
¾	Not carried	Not carried	1	4	6c	20c
1	5c	18c	1	12	6c	21c
1¼	6c	20c	2	4	6c	22c
1½	6c	20c	2	8	7c	24c
2	6c	22c	3		7c	27c
2½	7c	25c	3	4	8c	30c
3	7c	27c	3	12	8c	32c
3½	8c	32c	4		9c	35c
4	8c	36c	4	8	9c	38c
4½	9c	16c	2	4	11c	17c
5	11c	18c	2	8	11c	19c
6	12c	20c	2	12	12c	21c
7	16c	28c	3		16c	28c
8	18c	32c	3	8	18c	32c
10	23c	41c	5	2	Not carried	Not carried
12	27c	49c	6	3		

½-in. Diam. Bolts

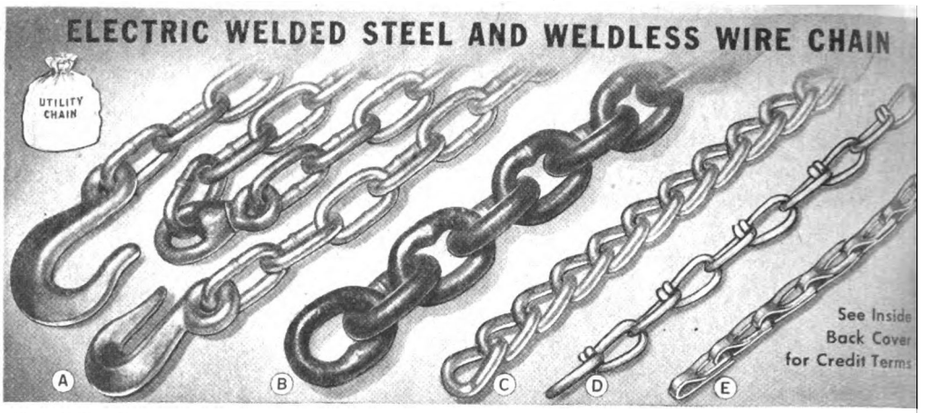
Length In	Carriage Bolts 84 A 4803 5 for	25 for	Ship Wt 25 Bolts Lbs.	Oz.	Machine Bolts 84 A 4798 5 for	25 for
1	Not carried	Not carried	2	12	10c	42c
1¼	10c	40c	3	12	10c	45c
1½	11c	48c	4	12	11c	47c
2	12c	55c	6		11c	50c
2½	13c	57c	7		12c	55c
3	13c	59c	8		13c	60c
3½	15c	27c	9		14c	63c
4	15c	59c	10		15c	66c
4½	15c	27c	3	12	16c	28c
5	16c	28c	4		17c	30c
6	17c	30c	4	12	19c	33c
7	23c	42c	6		25c	46c
8	28c	48c	6		27c	50c
10	32c	59c	7		34c	63c
12	36c	68c	8	8	38c	71c
14	40c	77c	9		45c	85c
16	44c	82c	10		49c	90c

⅝-in. Diam. Machine Bolts Only

Length In	Ship Wt 10 Bolts	84 A 4799 Each	10 for
10	11 lbs.	9c	79c
12	13 lbs.	10c	88c
14	14 lbs.	11c	97c
16	16 lbs.	12c	$1.10

Cotter Pin Assortments
Spring steel wire. Bright finish.
84 A 4891—**Automotive sizes.** Lgths. ⅝ to 1¼ in. Ship. wt. 5 oz. Box of 100 ..... **5c**
84 A 4886—**Agricultural sizes.** Lgths. 1¼ to 3½ in. Ship. wt. 2 lbs. 4 oz. B **36c**

ELECTRIC WELDED STEEL AND WELDLESS WIRE CHAIN



See Inside Back Cover for Credit Terms

12-Ft. Utility Chain With Carrying Bag **95c** P484 A 6425

(A) Electric welded steel rod, 5/16-in. diam. Breaking strain over 5000 lbs. About 8 links per ft. Convenient cloth carrying bag. Natural fin. with round and grab hook. Ship. wt. each 11 lbs. **State Art. No.**
P484A6425—Without Swivel. Ea. **95c**
P484A6426—With Swivel. Ea. **$1.05**

(A) **14-Ft. Galv. Finish Utility or Tow Chain with Carrying Bag.** Same as above but 2 extra feet of chain—rustproof finish. Ship. wt. each 14 lbs. **State Article Number.**
P484A6443—Without Swivel. **$1.45**
P484A6444—With Swivel. Ea. **1.59**

(A) **14-Ft. Logging Chains** **$1.49** ¼ in.
Similar to above but *natural finish*—shorter links for greater strength. With swivel, heavy round and grab hooks. No bag.
P484 A 6430—**State size wanted.**

Size Rod In.	Links Per Ft. About	Break. Strain Lbs.	Ship Wt. Lbs	Each	Two For
¼	12	3600	10	$1.49	$2.78
5/16	10¾	5440	15	2.05	3.85
⅜	9¾	7440	23	2.85	5.45
½	8	13,200	40	4.98	9.45

Wards Tested Proof Steel Coil Chain **6c** FT. 5/16-in. Natural Finish

(B) **Electric butt welded links.** Same quality as P484 A 6430 logging chains below at left. Make your own logging chain in any length. Natural or Galvanized finish. Ship. wts. per 100 ft.: 45, 75, 110, 165, 220 and 285 lbs. **State Art. No., size, length.**

Size Rod In.	Breaking Strain Lbs.	Links Per Ft.	684 A 6432 Natural Finish Per Ft.	50 Ft. for	684 A 6433 Galv. Finish Per Ft.	50 Ft. for
5/16	2090	12½	6c	$2.75	8¾c	$4.10
¼	3600	12	9c	4.20	13½c	6.40
5/16	5440	10¾	13c	5.95	19c	9.00
⅜	7440	9¾	17½c	7.95	25½c	12.20
7/16	10,000	8¾	23c	10.45	Not carried	Not carried
½	13,200	8	29c	13.25		

Twist Link Machine Chain **6½c** 2 Ft. Size 2-0

(C) **Electric butt welded links.** Bright finish. Open hearth basic steel.
684 A 6434—**State size and length.**

Size	Size Rod	Breaking Strain	Links Per Ft.	Ship. Wt. 100 Feet	Per Ft.	50 Ft. For
2-0	5/16 in.	1510 lbs.	16½	40 lbs.	6½c	$2.89
4-0	7/32 in.	1990 lbs.	14¾	55 lbs.	7c	3.25
6-0	9/32 in.	3420 lbs.	13	80 lbs.	12c	5.60
9-0	⅜ in.	6060 lbs.	9¼	145 lbs.	19c	8.95

Galvanized Wire Chain **2½c** 2 Foot Size 2

Weldless type. For dog ch... porch swings, door checks, ha... signs, etc. Galvanized to resist... Ship. wts. per 100 feet: 18 and 2...
684 A 6428—**State size and len...**

Size	Ga. Wire	Breaking Strain	Links Per Ft.	Per Ft.	50
2-0	10	1215 lbs.	6½	2½c	$1.
4-0	8	1515 lbs.	5½	4c	1.

Copper Plated Sash Chain

(E) **Stamped steel links.** Size 8. Breaking strain 350 lbs. S... wt. 100 ft. 4 lbs. 10 oz.
684 A 6413—**State length.**
Per Foot.....
84 A 6410—**100 Feet in bag** ... Hooks and Spirals. 28 hooks, 28 sp... —for attaching chain to sash. En... for 7 windows. Ship. wt. 4 lbs. 4 oz.

Important Information
Safe load is ¼ of breaking strain... all chains we list. *Chains weigh... up to 70 lbs. are Mailable.*

"P" MEANS PITTSBURGH. The letter "P" before an Art. No. (Example P484 A 643... means that item is also stocked at Pittsburgh. Order from Ward House nearest yo...



(F) **Cold Shuts.** Drop forged steel. Form chain repair links.
84 A 6440—Be sure to State size wanted.

For Chain	Wt. Each	Price Each	Price Dozen
3/16 in.	2 oz.	3c	33c
¼ in.	2 oz.	3c	33c
5/16 in.	2 oz.	4c	43c
⅜ in.	3 oz.	5c	48c
7/16 in.	5 oz.	6c	65c
½ in.	7 oz.	6c	65c

(G) **Lap Repair Links.** Made from steel wire rod. For repairing chain.
84 A 6438—Be sure to state size wanted.

For Chain	Ship Wt.	Price Doz.
3/16 in.	12 oz.	14c
¼ in.	1 lb. 3 oz.	15c
5/16 in.	1 lb. 12 oz.	23c
⅜ in.	2 lbs. 4 oz.	37c
7/16 in.	3 lbs. 4 oz.	60c
½ in.	4 lbs. 12 oz.	75c

(H) **Chain Repair Links.** Drop forged steel. Interlocking lugs. Strong as proof chain.
84 A 6437—State size.

For Chain	Wt. Each	Price Each	6 For
3/16 in.	2 oz.	7c	37c
¼ in.	3 oz.	8c	43c
5/16 in.	4 oz.	9c	45c
⅜ in.	4 oz.	11c	55c
7/16 in.	6 oz.	12c	60c
½ in.	7 oz.	14c	75c

(J) **Chain Swivels.** Prevent chain from twisting, kinking. Reduce wear.
84A6441—State size.

For Chain	Ship. Wt.	Ea.
3/16-in.	5 oz.	6c
¼ -in.	6 oz.	7c
5/16-in.	7 oz.	8c
⅜ -in.	14 oz.	14c
7/16-in.	1 lb.	20c
½ -in.	1 lb 2oz	21c

Round and G... Hooks. Drop fo...
State Art. No. and l...
(K) 84 A 6435—Ro...
(L) 84 A 6436—Gr...

For Chain Size	Ship. Lbs.	Wt. Oz	Roun... Grab H...
3/16 in.		5	6
¼ in.		7	7
5/16 in.		11	8
⅜ -in.	1		11
7/16 in.	1	8	18
½ in.	1	12	21



(M) **Steel Washers**
84 A 4844—Hot rolled steel. Fit bolt sizes listed below. **State size wanted.** Ship. wt. per pkg. 1 lb. 4 oz.

For Bolt Size	Approx. No. to Lb	Per Lb.
3/16 in.	365	16c
¼ in.	160	15c
5/16 in.	110	14c
⅜ in.	70	13c
½ in.	27	12c
⅝ in.	16	11c
¾ in.	11	10c
1 in.	7	9c

2½-Lb. Steel Washer Assortment
Consists of ¼, 5/16, ⅜ and ½ inch sizes.
84 A 4845—Ship. wt. per box 3 lbs. ..... 1 Box 21c; 2 Boxes **38c**

(N) **Square Bolt Nuts**
Natural finish. Accurately threaded to fit U. S. Standard carriage or machine bolts.
84 A 4840 State size.

For Bolt Size	Ship Wt. Lbs.	Oz.	No. in Pkg	Per Pkg.
¼ in.	1	8	100	15c
5/16 in.	2		100	23c
⅜ in.	3		100	28c
7/16 in.	2	8	50	24c
½ in.	3		50	32c
⅝ in.	6		50	65c
¾ in.	7		50	98c

Bolt Nut Assortment
Assortment includes sizes: ¼, 5/16, ⅜, 7/16 and ½ in. Ship. wt. 3 lbs.
84 A 4842—2½-lb. pkg. Abt. 100 nuts.
1 pkg. for **33c**
2 pkgs. for **62c**

Cadmium Plated Stove Bolts
Rust-resisting finish. With nuts. **State Article Number and length wanted.**

(P) **84 A 4790**—Diam. 3/16-in. Round Head
(R) **84 A 4792**—Diam. 3/16-in. Flat Head

Length In.	Pkg. of 25	Ship. Wts.
½	8c	3 oz.
¾	9c	4 oz.
1	10c	5 oz.
1½	12c	6 oz.
2	14c	8 oz.
2½	17c	9 oz.

(P) **84 A 4791**—Diam. ¼-in. Round Head
(R) **84 A 4793**—Diam. ¼-in. Flat Head

Length In.	Pkg. of 25	Ship. Wts.
½	11½c	7 oz.
¾	12c	8 oz.
1	14c	9 oz.
1½	16c	11 oz.
2	19c	13 oz.
2½	22c	1 lb.

(S) **Stove Bolt Assortment.** Cadmium plated round and flat head. About 100 bolts with nuts in glass jar.
84 A 4821—Ship. wt. 2 lbs. 4 oz... **25c**

(T) **Kant-Link Lock Washer Assortment.** Spring steel. Fits bolts 3/16 to ⅜-in. diameter. Ship. wt. 5 oz.
84 A 4851—Pkg. of 39 Washers.... **7c**

Lag or Coach Screws

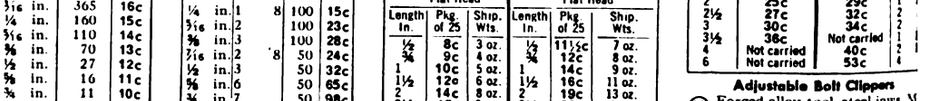
(U) Natural finish. Rolled thread... Square head. Gimlet point... screws in a package. **State Artic... Number and length wanted.**

Length In.	84 A 4814 3/16-in. Diam. Pkg. of 25	84 A 4815 ¼-in. Diam Pkg of 25	Ship. Wt. Lb O...
2	25c	29c	1
2½	27c	32c	2
3	30c	34c	2
3½	36c	Not carried	1
4	Not carried	40c	1
6	Not carried	53c	4

Adjustable Bolt Clippers

(V) Forged alloy tool steel jaws. M... leable iron handle s. Black enam... finish. Leverage about 36 to 1.
484 A 7040—**State length wanted**

Length	Cuts	Ship Wt.	Each
18 in.	3/16 in.	3 lbs.	$3.8...
24 in.	¼ in.	6 lbs.	4.9...
30 in.	⅜ in.	9 lbs.	6.2...
36 in.	½ in.	15 lbs.	7.9...



COPPER—SPLIT—TUBULAR—STEEL RIVETS AND ACCESSORIES

Solid Copper Rivet Repair Assortment
(W) A 2-lb. assortment with burrs, consisting of four ½-lb. boxes each of sizes 8, 9, 10 and 12 in assorted lengths from ⅜ to ¾-in.
84 A 4887—Shipping weight 2 lbs. 8 oz..... **75c**

Solid Copper Rivets With Burrs
(W) ½-lb. in each package. Ship. wt. per pkg. 12 oz. **State Article Number, length, quantity.**

One Length in a Package

Article Number	Size	Diam. Body	Choice of Length In.	½-lb. Pkg. Each	2 For
84 A 4870	8	11/64	⅜, ½, ⅝, ¾, 1	20c	35c
84 A 4873	9	5/32	½, ⅝, ¾, 1	21c	37c
84 A 4876	10	3/64	½, ⅝, ¾	22c	39c
84 A 4879	12	⅛	⅜, ½, ¾	23c	41c

Assorted Lengths—State Article No., quantity.

Article Number	Size	Diam. Body	Lengths in Pkg., In.	½-lb Pkg. Each	2 For
84 A 4883	8	11/64	⅜ to ¾	21c	37c
84 A 4884	9	5/32	⅜ to ¾	22c	39c
84 A 4885	10	3/64	⅜ to ¾	23c	41c
84 A 4880	12	⅛	⅜ to ¾	24c	43c

Steel Rivet and Burr Assortment
(W) **Copper Plated.** Size No. 8. Diam. 11/64-in. Assorted lengths ⅜ to ¾-in.
84 A 4869—½-lb. Package. Ship. wt. 12 oz... **12c**
One Dozen packages for..... **$1.32**

Drop Forged Steel Rivet Setters
(X) Sets burrs on solid copper and steel rivets. Numbered for size rivet. **Sizes: 8, 9, 10, 12. Be sure to state size wanted.**
84 A 4990—Shipping weight each 6 oz..... **13c**

Coppered Split Rivet Assortment
(Y) **Rivet holder included.** Rust-resisting coppered finish. For canvas, rubber or leather. Each box contains 50 rivets ¼ to ½-inch assorted lengths. Diameter under head 5/16-in. Shipping weight per box, 4 oz. **State quantity.**
84 A 4860—Box of 50 rivets..... **5c**
12 Boxes (600 rivets) for..... **57c**

Black Japanned Tubular Steel Rivets
(Z) **Assorted.** Body diam. 3/16 in. Head diam. 5/16 in. Lengths ¼ to ½ in. Ship. wts. per box 2 oz. **State quantity wanted.**
84 A 4861—Box of 50..... **8c**
12 boxes, (600 rivets)..... **85c**

Individual Sizes
84 A 4862—**State length, quantity.**

Length In.	Wt. Oz.	Box of 50	2Boxes For	3
5/16	3	9c	16c	
⅜	3	10c	18c	
½	3	11c	20c	
¾	4	12c	22c	

Soft Steel Rivets—Straight Sizes
¼-in. diameter. 1-lb. packages. Shipping weight 1 lb. 4 oz. **Be sure to state length wanted.**
(A) 84 A 4857—Wagon Box Head Rivets.

Length, In.	1¼	1½	2	2½	3
Price per lb.	13c	13c	13c	13c	13c

Soft Steel Rivet Assortments
2½-lb. packages in assorted lengths, ¾ to 2 inches. Shipping weight 2 pounds 13 ounces.
(A) 84A4896—5/16-in. diam. Wagon Box Head. **32c**
(B) 84A4897—3/16-in. diam. Oval Head..... **32c**
(A) 84A4898—¼-in. diam. Wagon Box Head **29c**
(B) 84A4899—¼-in. diam. Oval Head..... **29c**

Soft Steel Rivet Burr
(C) 1-lb. package. Ship. w... per pkg. 1 lb. 4 oz.
84 A 4867—For 3/16 in... steel rivets. Pkg.... **1**
84 A 4868—For ¼ in. steel rivets. Pkg..... **17**

Spring Hand Punch
(D) Strong 8-in. steel fram... —6 heat treated an... tempered steel tubes punc... 3/32 to 5/32 in. diam. holes ... leather etc. Ship. wt. 11 oz...
84 A 2243..... **57**

Adjustable Hand Riveting Machine
(E) Sets any tubular o... split harness rivet u... to ¾ in. length. 5/16 in... head. Automatic adjust... ment. Positive steel pin... er. Rust-resisting Bla... japan finish. Shipping w... 3 lbs. 12 oz.
84 A 4892—Each.... **75c**

Wards Guarantee Satisfaction or your Money Refunded—See Back of Catalog for Details.

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Ball Bearing POST DRILLS

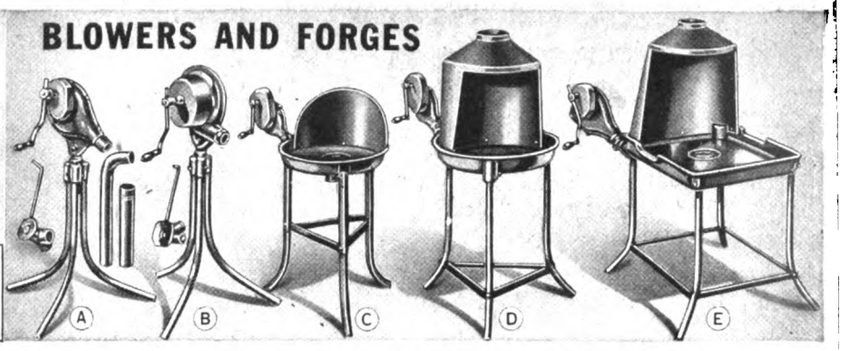


GOOD — $4.45 — P484 A 6475

BETTER — $7.45 — P484 A 6477

BEST — $12.95 Cash — $2 A MONTH — P184 A 6479

BLOWERS AND FORGES



Gear cases are cast iron — oil-tight, dustproof. Helical cut Steel gears — 48 to 1 ratio. Steel gears, while half as wide as cast iron, are unbreakable, fit better, run smoother.

Light Duty Utility Post Drills

Drill up to ⅝-in. diameter. 1½ inches deep.
Drill to the center of a 5⅝-inch circle.
Table diam. 4¼ in.—raises, lowers 8 inches.

Shipped with single self adj. 1 speed with crank—1 belt. Ball bearing end rust reduces friction—makes drill turn easily. 6¼ 1¼-inch fly wheel takes ½-inch round or "V" belts. Blacksmith chuck screws on a threaded spindle and takes ½-in. round shank blacksmith drills. Height over all 26 in. Spindle diameter. ½-inch. Mounted on board with lag screws. Gray enamel finish. *Maiable.*

84 A 6476—Ship. wt. 28 lbs. Each..... **$4.95**

Drill above with Extra 3-Jaw Chuck. Takes straight shank drills up to ½-in. diam. *Maiable*

84 A 6476—Ship. wt. 28 lbs. Each..... **$4.95**

Medium Duty Shop Post Drills

- Drill up to 1-inch diameter, up to 3 in. deep.
- Drill to the center of an 11¾-inch circle.
- Table diameter 7 inches—raises or lowers 8 in.

For blacksmiths, garages, and general shop use. Three self-feed adjustments—2 speeds with crank—1 with belt. End thrust, quiet ball bearings. 12-inch diameter, 2-inch width pulley for flat, ½-inch round or "V" belts. Blacksmith chuck screws on a threaded spindle and takes ½-in. round shank blacksmith drills. Spindle diameter ⅝-in. Mounted on a plank with lag screws. Overall height 31½ in. Gray enamel finish. Ship. wt. each, 55 lbs.

P484 A 6477—*Maiable.* **$7.45**

Above Post Drill With Extra 3-Jaw Chuck that screws on threaded spindle—takes straight shank drills to ½-in. diameter. Ship. wt 56 lbs.

P484 A 6478—*Maiable.* **$7.95**

Heavy Duty Blacksmith Post Drills

- Drill up to 1⅜-in. diameter, up to 3¼ in. deep.
- Drill to the center of a 14-inch circle.
- Table diameter 7 inches—raises or lowers 11 in.

For heavy drilling, reaming, countersinking, etc. Built extra large and heavy throughout. Three self-feed adjustments—2 speeds with crank—1 with belt. Fully enclosed, end thrust, retainer-type ball bearings for more quiet operation and greater power. Grooved flywheel 12 in. by 2 in.—takes flat, ½-in. round or "V" belts. Lathe turned and slotted table. Blacksmith chuck screws on threaded spindle and takes ½-in. round shank drills. Spindle diam. 1 in. Mounted on a plank with lag screws. Overall: 38 in. Ship. wt. 87 lbs.

P184A6479—*Not Maiable* **$12.95**

Above Post Drill with extra 3-Jawchuck. Takes straight shank drills up to ½-in. diameter. Ship. wt. 88 lbs.

P184A6480—*Not Maiable* **$13.45**

Hand Blowers

Ⓐ Heavy Duty. Produces a white hot heat. 10-in. pear shaped fan case. Head rotates without moving legs—raises or lowers 4½ in. on rigid, 1-in. tubular steel legs. With 30 in. of 3-in. pipe, elbow and replaceable anti-clinker tuyere iron. Ht. overall 43¾ in. Ship. wt. 46 lbs. *Maiable.*

P484 A 6470.... **$10.75**

Ⓑ Extra Heavy Duty. Larger than blower above. Large 13-in. volute-type fan case—produces more air with less effort. With tuyere iron and 30 in. of 3-in. pipe and elbow. **Shipped separately from Factory** in Buffalo, N.Y.—allow 15 days. Ship. wt. 74 lbs. *Not Maiable.*

284A6471-Cash. **$15.95**

GOOD—Sheet Steel Forges

18-in. Sheet Steel Hearth. For plumbers, farmers, etc. 1-pc. unbreakable hearth 3 in. deep—will last indefinitely if lined with clay. Rigidly braced. Lightweight—easily moved. 6-in. fan. Replaceable tuyere iron. *Maiable.* **$6.49** Shield Type

Ⓒ P484 A 6460 — With 12-in. Shield. Ht. 38⅜ in. Wt. 36 lbs. **$6.49**

Ⓓ P484 A 6461 — With Hood. Overall ht. 48⅛ in. Use with 6-in. stove pipe. Wt. 40 lbs..... **$7.49**

BETTER—Cast Iron Shop Forges

20-in. Cast Iron Hearth. For use where a heavier Forge is needed. Guaranteed not to burn or rust out. 6-in. fan. Hearth 3 in. deep. Ht. to hearth 29¼ in. Replaceable tuyere iron. *Not Maiable.* **$11.25** Cash — Shield Type — $2 A Month

Ⓒ P184 A 6462 — With 12-in. Shield. Ht. 41 in. Wt. 82 lbs. **$11.25**

Ⓓ P184 A 6463 — With Hood. Overall height 47 in. Use with 6-in. stove pipe. Ship. wt. 84 lbs. **$12.25**

BEST—Cast Iron Blacksmith Forges

Ⓔ Heavy Duty. Compare with $18 Forges elsewhere! Rugged, 18 by 20-in. cast iron hearth . . . guaranteed not to burn out or rust out. Four rigidly braced tubular steel legs will support heavy work. Powerful 6-in. fan. Replaceable tuyere iron. Hearth is 3 inches deep. Ht. to hearth 29 inches; overall height 48 in. Just $2 a Month buys this Forge on convenient payments—See Inside Back Cover for complete Time Payment details. Shipping weight 86 lbs. **$13.95** Cash — 18 by 20 in. — $2 a Month

P184A6464—*Not Maiable.* Cash. **$13.95**

Ⓔ Extra Heavy Duty Blacksmith Forge. Made especially for heavy farm equipment, welding of plowshares, etc. Cast iron hearth measures full 23 by 30 in. Height overall 51½ inches. Just $3.50 a Month puts it in your shop—See Inside Back Cover for details. *Not Maiable.*

P184 A 6465—Shipping weight 172 lbs. Cash Price..... **$21.95**

Forge With Electric-Driven Blower

Same as P184 A 6465 Forge above except with 110–120-volt, 60-cycle A.C. Electric Blower—no hand turning. Motor abt. 1/20 H.P. **Shipped from Factory** in Buffalo, N.Y.—allow 15 days. Ship. wt. 174 lbs. *Not Maiable.*

284 A 6466—
Cash Price..... **$26.95**



Welding Compound

For steel or iron forge welding. Not for Oxy-Acetylene or Arc Welding.

84 A 7152—1-lb. Box. Ship. wt. 1 lb. 8 oz.... **19c**

84 A 7153—5-lb. Can. Ship. wt. 6 lbs..... **75c**



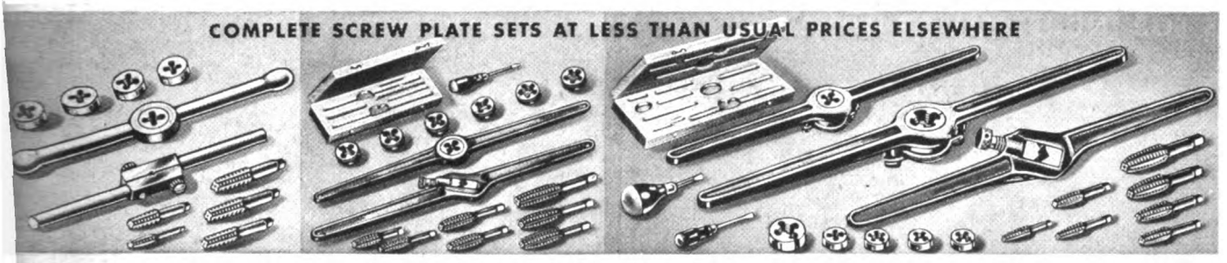
Blacksmith Coal

For faster, better forge welding. Produces intense glowing heat. Cokes quickly. High in carbon content—low in ash and sulphur. 100-lb. bag. *Not Maiable.*

P184 A 6500—
1 Bag..... **75c**
3 Bags for..... **$2.05**



COMPLETE SCREW PLATE SETS AT LESS THAN USUAL PRICES ELSEWHERE



Economy Screw Plate Sets

Bargain priced! Sets have ¼-in. round die stock. 7½-in. tap wrench. Solid, non-adjustable 1-in. outside diam. dies, with plug taps for each size. Packed in a wood box. **$2.19** 5-cut Set

84 A 7262—5-Cut U.S. Standard (Fast Coarse) Set. 5-cutting sizes: ¼, ⅜, ½, ⅝, ¾-in. Ship. wt. 3 lbs. Complete Set..... **$2.19**

84 A 7263—5-Cut S.A.E. (Nat'l Fine) Set. 5-cutting sizes: ¼, 5/16, 3/8 and ½-inch. Ship. wt. 3 lbs. Complete Set..... **$2.19**

84 A 7264—11-Cut U.S.S. and S.A.E. Combination Set. Die stock, tap wrench and ½-in. pipe die and tap; also 1 each U.S.S. and S.A.E. taps and dies in sizes: ¼, 5/16, ⅜, 7/16 and ½-in. Complete Set. Ship. wt. 4 lbs... **$3.59**

Lakeside O.K. Screw Plate Sets

Same quality adjustable dies and plug taps as in Greenfield O.K. Jr. sets at right, except die stocks not equipped with adjustable guide. Complete sets—*7-cut set shown.* Plug taps and adjustable dies for each cut furnished. With screw driver. Packed in wood box. **$7.59** 5-Cut Set

584 A 7280—4-Cut Set. Cuts U.S.S. ¼, 5/16, ⅜ and ½-in. threads. Outside diam. of dies 1 in. Length stock 9 in.—tap wrench 11 in. Ship. wt. 4 lbs. Set.. **$6.69**

584 A 7281—5-Cut Set. Cuts U.S.S. ¼, 5/16, 7/16, 5/16 and ½-in. threads. Outside diam. of dies 1 in. Lgth. stock 9 in.—tap wrench 11 in. Ship. wt. 5 lbs. Set... **$7.59**

584 A 7282—7-Cut Set. Cuts U.S.S. ¼, 5/16, ⅜, 7/16, ½, ⅝ and ¾-in. threads. Outside diam. dies 1½ in. Length stock 14 in.—tap wrench 15 in. Wt. 9 lbs. Set. **$10.65**

Greenfield O.K. Junior Round Die Screw Plate Sets

With adjustable guide stock—can be instantly set to fit any size rod within cutting range of the screw plate. Finest tool steel dies and plug taps for threading and tapping. Complete sets—*7-cut set illustrated.* Plug taps and adjustable dies for each cut, and screwdriver to fit each stock. Packed in hinged wood box. **State Article Number wanted.** **$9.75** 5-Cut Set

Article Number	No. of Cuts	Size of Cuts In.	Outside Diam. of Dies	Length Stock In.	Lgth. Tap Wrench	Wt. Lbs.	Per Set
584 A 7265	4	U.S.S. ¼-5/16-⅜-½	1 in.	13	11 in.	9	$8.94
584 A 7266	5	U.S.S. ¼-5/16-⅜-7/16-½	1 in.	13	11 in.	9	9.75
584 A 7267	6	U.S.S. ¼-5/16-⅜-7/16-½-⅝	1 in. (¼ to ½) 1½ in. (⅝ in.)	13&17¾	15 in.	10	12.09
584 A 7268	7	U.S.S. ¼-5/16-⅜-7/16-½-⅝-¾	1 in. (¼ to ½) 1½ in. (⅝ to ¾)	13&17¾	15 in.	11	13.75
484 A 7269	9	U.S.S. ¼-5/16-⅜-7/16-½-⅝-¾-⅞-1	1 in. (¼ to ½) 2 in. (⅝ to 1)	13&26	11 in. 19 in.	18	23.50
584 A 7270	10	1 each U.S.S. and SAE ¼-5/16-⅜-7/16-½	1 in.	13	11 in.	10	15.69
484 A 7271	16	1 each U.S.S. and SAE ¼-5/16-⅜-7/16-½-5/16-⅝-¾	1 in. (¼ to ½) 1½ in. (5/16 to ¾)	13&17¾	15 in.	15	27.45

Important Information. Number threads per in. on taps and dies: **U.S.S. or N.C. Threads:** ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13, 9/16-12, ⅝-11, ¾-10, ⅞-9, 1-8. **S.A.E. or N.F. Threads:** ¼-28, 5/16-24, ⅜-24, 7/16-20, ½-20, 9/16-18, ⅝-18, ¾-16.

Repair Parts are Always Available for Wards and Greenfield Screw Plates

Blacksmith Anvils



Vanadium Steel Blacksmith Anvils

$12.59 Cash — Size 70 Lb. — $2 a Month

- **Face hardened, tempered and individually tested.**
- **Anvils are guaranteed not to chip.**

Ⓕ One-piece, highest quality Vanadium steel. Perfect, smoothly polished face and horn. Pritchel and hardie hole. Ship wts. same as actual weights. See Inside Back Cover for Terms. *Not Maiable.*

P184 A 6930—State weight wanted.

Actual Wt. Lbs.	Size Face About In.	Hardie Hole	Pritchel Hole	Cash Price
70	3½ x 12½	⅞ in.	½ in.	$12.59
100	3½ x 13	⅞ in.	½ in.	17.95
125	3⅝ x 15¼	⅞ in.	⅝ in.	22.40
150	4¼ x 16	1 in.	⅝ in.	26.90

Cast Iron Farm Anvils

Ⓖ ⅝-in. hardie hole and ½-in. pritchel hole. Ship. wts. 50 and 70 lbs.

P184 A 6934—State size wanted.

50-lb. Anvil—Face about 10 by 3½ in. *Not Maiable*..... **$3.79**

70-lb. Anvil—Face about 10⅝ by 3½ in. *Not Maiable*..... **5.39**

Sharp Bit Anvil Hardies

Ⓗ 84 A 6952—Made of drop forged steel. Tapered shank. **State size.**

For Hole Sizes	Width Cut About	Ship. Wt. Lbs.	Ship. Wt. Oz.	Each
⅝ in.	1⅝ in.	1	4	45c
¾ in.	1⅞ in.	1	12	55c
⅞ in.	2 in.	2	.	65c
1 in.	2⅛ in.	2	4	75c



HOW TO MEASURE



Measure actual width of horse's hoof (A to B). Add ½-in. to length of hoof (C to D) so shoe will extend beyond wall at heel of hoof.

Toed and Heeled Horseshoes

29c Pr. — Size 0

Heavy blunt toe and heel calks. No heating necessary—can be reshaped cold. **State Art. No. and size.**

84 A 7116—For front hoofs.

84 A 7117—For hind hoofs.

Size	Width In. About	Length In. About	Takes Nail No.	Ship. Wt. Per Pair Lbs.	Ship. Wt. Per Pair Oz.	Price Per Pair
0	4⅜	4 15/16	5	1	5	29c
1	4½	5 5/16	5	2	2	31c
2	4¾	5 11/16	6	2	5	33c
3	5	6 1/16	6	2	12	39c
4	5 1/16	6½	7	3	5	45c
5	5⅜	6⅞	7	3	14	56c
6	6 1/16	7½	8	4	14	73c
7	6⅝	7¾	9	5	7	79c



Screw Calk Horseshoes

25c Pr. — Size 1

Grip ice and snow when used with No. 84 A 7141 screw calks described and listed below. Use without calks in summer. Drilled and tapped for screw calks. Nail holes correctly tapered and spaced.

State Article Number and size wanted.

84 A 7158—Shoes for front hoofs.

84 A 7159—Shoes for hind hoofs.

Size	Width In. About	Length In. About	Takes Calk In.	Takes Nail No.	Ship. Wt. Per Pair Lbs.	Ship. Wt. Per Pair Oz.	Price Per Pair
1	4 3/16	5¼	⅜	5	1	9	25c
2	4¾	5 5/16	7/16	6	2	.	32c
3	5	5 13/16	7/16	6	2	2	39c
4	5⅜	6 5/16	7/16	7	2	8	46c
5	5¾	6 13/16	½	7	3	.	55c
6	6⅛	7⅜	9/16	8	3	11	67c
7	6 5/16	7⅞	9/16	9	4	4	79c



Drive Calk Horseshoes

39c Pr. — Size 2

For maximum traction on snow, icy roads, or frozen ground. With tow clips. Correctly spaced and tapered nail holes. Drilled for drive calks 84 A 7138 below. **State Article Number and size.**

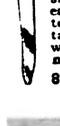
84 A 7156—Shoes for front hoofs.

84 A 7157—Shoes for hind hoofs.

Size	Width In. About	Lgth. In. About	Takes Calk In.	Takes Nail No.	Ship. Wt. Per Pair Lbs.	Ship. Wt. Per Pair Oz.	Price Per Pr.
2	4 11/16	5 5/16	½	6	2	8	39c
3	4 13/16	5⅞	½	6	3	.	50c
4	5⅜	6½	½	7	3	10	60c
5	5¾	6 13/16	5/16	7	4	4	70c
6	6⅛	7 1/16	5/16	8	4	14	80c
7	6 5/16	7 5/16	5/16	9	5	6	95c

"P" before Art. No. means item shipped also from Pittsburgh. Order from nearest House.

Bright Finish Horseshoe Nails



For toed and heeled, screw calk and drive calk horseshoes. Perfect points drive easy. Hold shoes firm. Centered heads. Order from table at right. Shipping weight 1 lb. 8 oz. **State nail number wanted.**

84 A 7134—1 pound box.

Nail No.	Length In.	Price Per Box	5 Boxes For
5	1 13/16	18c	89c
6	2⅛	18c	89c
7	2¼	18c	89c
8	2½	18c	89c
9	2⅝	18c	89c

Screw Calks—For Screw Calk Shoes

Square shoulder. Tool steel center—lasts longer and wears sharper. Each box contains 25 calks.

84 A 7141—State size, number of boxes.



Size	Fits Shoe	Wt. Box	Per Box	2 Boxes
⅜ in.	1	1½ lb.	53c	98c
7/16 in.	2, 3	1½ lb.	62c	$1.15
½ in.	4, 5	2 lb.	63c	1.19
9/16 in.	6, 7	2½ lb.	66c	1.25

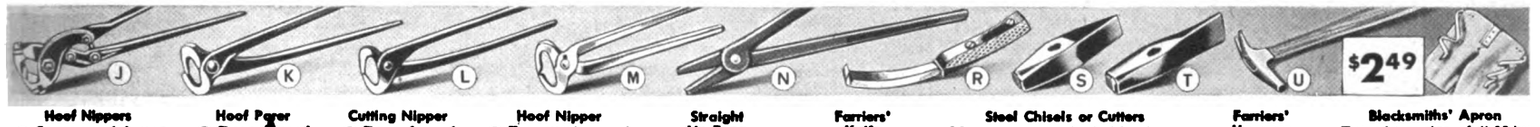
Drive Calks—For Drive Calk Shoes

Heat treated for wear. Ribbed taper shanks. Won't twist or drop out. Each box contains 25 calks.

84 A 7138—State size, number of boxes.



Size	Fits Shoe	Wt. Box	Per Box	2 Boxes
7/16 in.	1, 2	1¼ lb.	69c	$1.25
½ in.	3, 4	1¾ lb.	69c	1.25
9/16 in.	5, 6, 7	2¼ lb.	69c	1.25
⅝ in.	Draft	2½ lb.	69c	1.25



$2.49

Hoof Nippers

Ⓙ Compound lever action, ratio 12 to 1. Replaceable alloy steel blades. Forged handle and jaws. Handles can be held in one hand when open. Lgth. 13 in. Ship. wt. 3 lbs.

84 A 7017—
Each..... **$3.98**

Hoof Parer

Ⓚ Drop forged steel. Natural finish. Polished tempered steel jaws, ⅞-in. wide. Length, 14 in. Ship. wt. 2 lbs. 8 oz.

84 A 7000
Each..... **$1.49**

Cutting Nipper

Ⓛ Drop forged steel. Natural finish. Polished tempered jaws 15/16 in. wide. Length, 14 in. Ship. wt. 2 lbs. 8 oz.

84 A 7010—
Each..... **98c**

Hoof Nipper

Ⓜ For cutting and paring hoofs, etc. Drop forged. Polished jaws, head and handle. Countersunk rivet. Length 14 in. Jaws 1 in. wide.

84 A 7008—
Ship. wt. 2 lbs. 8 oz.... **$2.19**

Straight Lip Tong

Ⓝ For blacksmith work. Drop forged. Natural finish. Length about 20 inches. Ship. wt. 2 lbs. 8 oz.

84 A 6980—
Each..... **89c**

Farriers' Knife

Ⓡ Cast iron handle. ⅞ by 4¼-in. replaceable tool steel blade. Length, 8¾ inches. Shipping weight 9 oz.

84 A 7031—
Each..... **65c**

Steel Chisels or Cutters

Manganese steel—holds sharp cutting edge. Shipping weights each 2 lbs. 12 oz.

Ⓢ 84 A 6963 Cold Chisel or Cutter. Cutting edge 1⅜ in. Length about 6½ in.... **89c**

Ⓣ 84 A 6962 Hot Chisel or Cutter. Cutting edge 1⅜ in. Length about 7⅜ in.... **89c**

Farriers' Hammer

Ⓤ Drop forged. Tempered and polished head. Hickory hdle.

84 A 7054—
Shipping wt. 1 lb. 4 oz.
Each..... **95c**

Blacksmiths' Apron

Extra large size—full 28 by 36 in. Chrome tanned split leather about 1/16-in. thick. Water and fire proof. Comfortable split leg style. With leather tie laces.

84A7093-Wt. 3 lbs. **$2.49**

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CORDWOOD SAWS



Oil Tempered—Heat-Treated under rigid electric controls.



Hand Hammered by Master Craftsmen for correct tension.



Hand Set and Filed for fast, clean, dependable cutting.



Tested on Brinell Machine to assure right hardness.

Save Up to One Third on Fast Cutting, Long Lasting Saws at Wards

Wards offer 3 qualities of Cordwood Saws—all made to exacting standards by Master Craftsmen. All have the features shown above. All have deep, sawdust-freeing gullets. All are excellent values. Chief differences are type of steel and refinements in workmanship. Wards do not sell cheap cordwood saws, though the price of the *Good* is lower than many inferior saws. However, Wards *Better* and *Best* are well worth the small differences in price. The finer steels, better finish mean smoother operation with less wear; less risk of time loss; more production per dollar outlay. Check the steels in Wards 3 qualities below and choose the one best suited to your needs.

GOOD—Eclipse Quality

Carefully manufactured from *high-carbon saw steel.* All the features pictured above. See "How to Order" and size listings in table below.

BETTER—Lakeside Quality

Better-made from better *special refined saw steel*—tougher than Eclipse grade. All features pictured above. See "How to Order" and listings below.

BEST—Master Quality

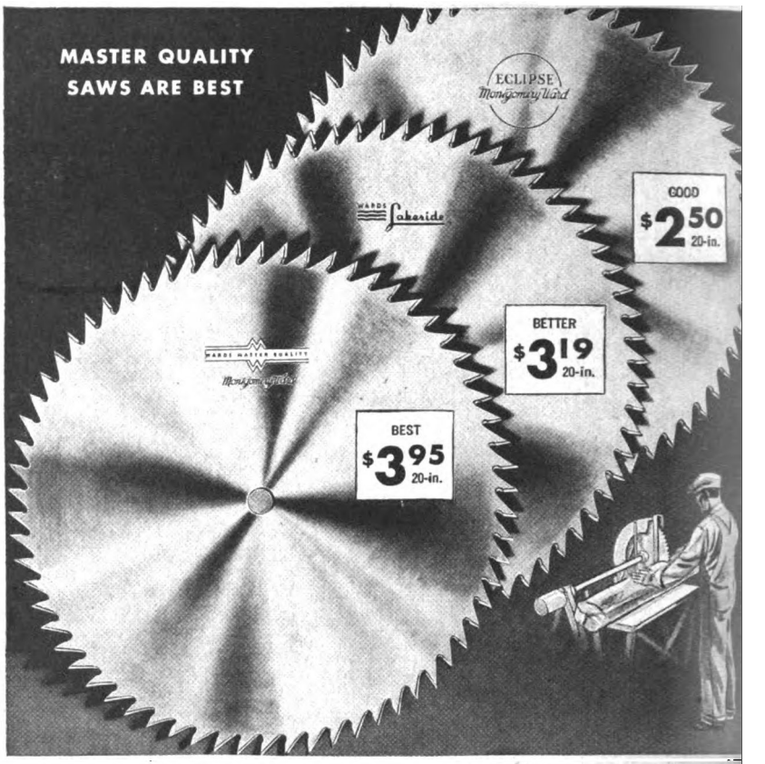
Finely made of *chrome-alloy steel*—tests show 35 to 40% longer life than other saw steels. All features above. See "How to Order," size listings below.

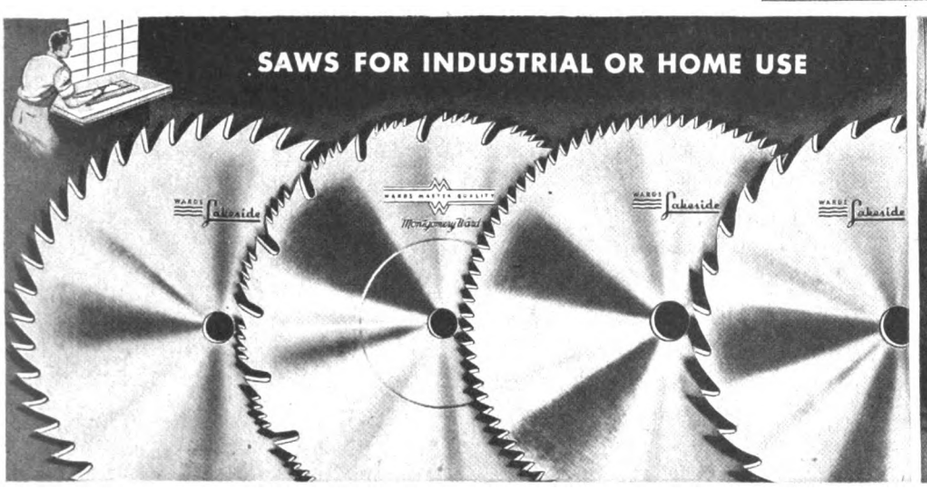
HOW TO ORDER WARDS CORDWOOD SAWS

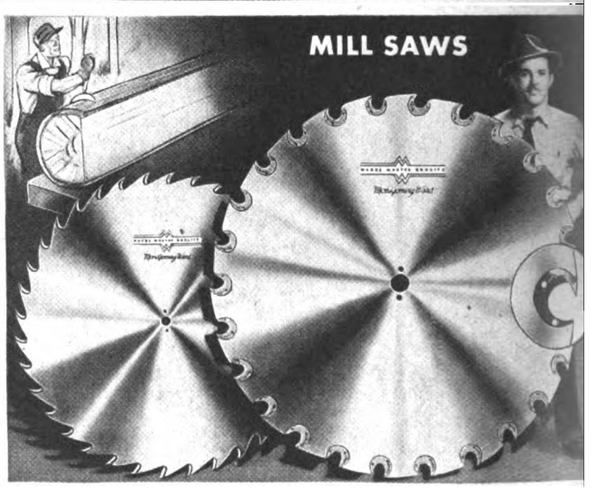
Wards furnish Cordwood Saws with any size hole. Saws below have 1⅝-in. diam. holes. Holes over 1⅝-in. and up to 2-in. 50c extra and Shipped from Stock. Over 2-in. $1.50 extra and **Shipped from Factory** near Chicago in about 2 weeks. We do not recommend holes larger than 1⅝ in.

Diam.	Gauge Steel	Speed R.P.M.	Eclipse Ship. Wt.	Eclipse 684 A 267	Lakeside Ship. Wt.	Lakeside 684 A 269	Master Ship. Wt.	Master 684 A 264
20 in.	13	1800	12 lbs.	$2.50	14 lbs.	$3.19	13 lbs.	$3.95
24 in.	11	1500	.....	....	18 lbs.	4.45	20 lbs.	5.65
26 in.	11	1384	22 lbs.	4.15	21 lbs.	4.98	24 lbs.	6.45
28 in.	10	1285	28 lbs.	4.65	27 lbs.	6.75	30 lbs.	7.75
30 in.	10	1200	31 lbs.	5.45	31 lbs.	6.95	34 lbs.	8.95
32 in.	10	1120	.....	....	35 lbs.	7.95	38 lbs.	9.95
36 in.	9	1000	.....	....	47 lbs.	11.95	50 lbs.	13.95

IMPORTANT: State diameter saw and size hole wanted. 30-in. and smaller *Mailable.* Larger sizes shipped by freight or express.







Combination Saws for Smooth Work

Plain Tooth 80c 6-In.

- **Rip and Cross-cut**
- **Lakeside Quality**

Made of 18-ga. crucible-alloy steel. Tempered. Hand filed, hammered, set for clean, fast cutting without binding. Somewhat faster saw than taper-ground fancy tooth saws but cut is not as smooth. Ship. wts.: 9 oz.; 13 oz.; 1 lb. 1 oz.

84 A 284—State diameter wanted.

Diam. In.	Size Hole	Price Each
6	½ in.	80c
7	½ in.	$1.00
8	⅝ in.	1.25

Hole Sizes on Combination Saws are standard, but we supply any hole size—up to 1-in. no extra charge. Over 1-in. 50c extra—from Factory near Chicago in abt. 2 wks. **State saw, hole sizes.**

Fancy Tooth 98c 6-In. **$2.65** 6-In. **$3.35** 7-In.

Eclipse — Lakeside — Master

- **Miter, Rip, Crosscut with Same Saw**
- **Save Time, Labor—No Changing Saws**

Ideal for varied work. Tempered, hardened, polished. Hollow ground type gives smoother finish than flat ground—no after planing necessary—taper prevents binding.

GOOD. Eclipse Quality. Flat ground. High-carbon steel. Properly filed and set.

BETTER. Lakeside Quality. Hollow ground—3-gauge taper. Special refined saw steel.

BEST. Master Quality. Hollow ground with 3-gauge taper. Chrome-alloy steel—by actual test 35 to 40% longer life than other steel—stays sharp longer. **State diameter saw, size hole wanted.**

Diam.	Gauge Taper	Size Hole	Ship. Wt. Lbs.	Ship. Wt. Oz.	Master 684 A 262	Lakeside 684 A 268
6 in.	16 to 19	½ in.		10	.....	$2.65
7 in.	15 to 18	½ in.	1		$3.35	2.95
8 in.	15 to 18	⅝ in.	1	8	3.98	3.65
10 in.	14 to 17	¾ in.	2	4	4.98	4.45
12 in.	13 to 16	⅞ in.	3	4	5.98	5.45

Diam.	Gauge	Size Hole	Flat Ground Eclipse Quality Ship. Wt.	684 A 263
6 in.	18	½ in.	10 oz	98c
7 in.	17	½ in.	12 oz.	$1.25
8 in.	17	⅝ in.	1 lb.	1.49
10 in.	16	¾ in.	1 lb. 12 oz.	1.95
12 in.	15	⅞ in.	2 lbs. 12 oz.	2.65

Crosscut and Rip Saws for Fast Work

For Workshop or Factory Wards Lakeside Quality **$1.10** 6-In.

- **Special Refined Saw Steel—Holds Keen Edge.**
- **Tensioned for Correct Speeds—True Running.**

Tempered, hand hammered, filed and set by master saw makers. Properly balanced to run true, cut fast and straight. Polished. Deep sawdust freeing gullets. Saw won't buckle or bind.

Important: Standard hole sizes are listed below, but Wards will furnish up to 2-in. hole at no extra charge from stock; larger from Factory near Chicago at $1 extra in about 2 weeks. Saws 30 inches or smaller *Mailable.* Larger by freight or express. **State saw diameter and hole size wanted.**

Diam. of Saw	Gauge Steel	Size Hole Inches	SPEED R.P.M.	Ship. Wt. Lbs.	For Workshop Use Crosscut 684 A 260	Rip 684 A 261
6 in.	18	½ or ¾	4800	1	$1.10	$1.10
7 in.	18	½ or ¾	4750	1	1.35	1.35
8 in.	18	⅝ or ⅞	4500	2	1.55	1.55
10 in.	16	¾ or 1	3600	2	1.95	1.95
12 in.	15	¾ or 1	3000	4	2.95	2.95
For Saw Mills and Factories						
14 in.	14	1 or 1½	2585	5	$3.25	$3.25
16 in.	14	1 or 1⅛	2222	6	3.98	3.98
20 in.	13	1¼ or 1⁵⁄₁₆	1800	10	5.45	5.45
24 in.	11	1⅜	1500	17	7.25	7.25
26 in.	11	1⅜	1384	20	8.50	8.50
30 in.	10	1½	1200	28	10.95	10.95
					184 A 260	184 A 261
32 in.	10	1⅝	1120	37	$12.95	$12.95
36 in.	9	1⅝	1000	49	15.95	15.95

Swaged Tooth Saw Blades

$37.60 Cash — $5 Mo. See Back Cover

Save on highest quality swage set solid tooth Saw Blades at Wards . . . get same recognized quality that has made these blades famous under the manufacturer's trade mark! High quality chrome-alloy electric furnace steel. "Chisel-type" teeth are spread to give two cutting corners . . . require less filing, give extra long service. **State blade diam., center hole diam., speed of saw in cut, whether for right or left hand mill.** If you want pinholes send tracing showing the location and size. **Shipped from** Factory near Chicago, Ill. in about 20 days.

Diam. In.	Rim Gauge	Ship. Wt. Lbs.	287 A 2930
36	9	58	$37.60
40	9	73	49.60
44	8	88	66.50
48	8	109	89.50
52	7	135	113.50

Inserted Tooth Saw Blades

$66.50 Cash — $7 Mo. See Back Cover

Save time — eliminate possible faulty filing — preserve original saw diameters. You can do all this with Wards Inserted Tooth Saw Blades . . . and save as much as 10% over usual prices besides!

Made of finest chrome-alloy electric furnace steel, with No. 3 Hoe-Type forged steel teeth in spring holders. Teeth are easy to replace—no need to discard the blade. Extra set of bits, 2 extra shanks, and inserting wrench included. **State blade diam., diam. of center hole, whether for right or left hand mill, and speed of saw in cut.** If you want pin holes send tracing showing location and size. **Shipped from** Factory near Chicago, Ill. in about 20 days.

Diam. In.	Rim Ga.	No. Teeth	Ship. Wt.	287 A 2933
36 in.	9	24	90 lbs.	$66.50
40 in.	9	26	111 lbs.	78.95
44 in.	9	30	132 lbs.	94.75
48 in.	8	34	157 lbs.	113.50
52 in.	8	38	191 lbs.	139.95

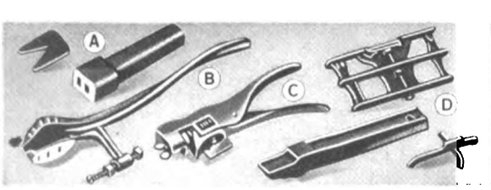


Steel Inserted Tooth Bits, Shanks—Guaranteed Perfect Fit

Same quality as originals on your saw. No. 3 Hoe type—fits mo. 3 Hoe, Atkins, Curtis, Simonds, American, and Southern saws—also Disston No. 7 and Wards 287 A 2933. *Sold only in types, sizes, quantities listed. For best fit, send samples.*

Ⓐ **87 A 2855—Bits.** 8-ga. 3½-in. point; 9-ga., 1¾-in. point; 10-ga., ¼-in. point. Ship. wt. 2 lbs. 4 oz. per 100 **State gauge.** Per 100... $5.2

Ⓑ **87 A 2856—Shanks.** 8-, 9- or 10-ga. Ship. wt. 4 oz. each. **State gauge**...Each 49



Swage and Sets for Circular, Long Saws

Ⓐ **84 A 280—Circular Saw Swage.** Spreads, shapes points; trues teeth; squares edge. Tool steel shank. Instructions. Size No. 1—for 8 to 12 ga. saws. Ship. wt. 1 lb. 12 oz..... **$4.25**

Ⓑ **84 A 330—Set for Cordwood, Rip, Drag Saws.** Adjustable gauge screw regulates amount of set. Ship. wt. 1 lb. 12 oz. **98c**

Ⓒ **Morrill Pattern Saw Set.** Thumb screw adjustment. Hard steel anvil, plunger. Tempered steel spring. Instructions.

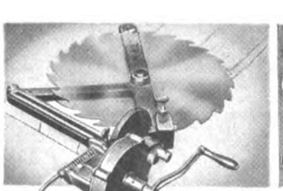
84 A 326 Size 3. 8½ in. long. For single tooth cross-cut, lance tooth or circular saws, 20 to 14 ga. Ship. wt. 1 lb. 12 oz.....**$1.15**

84 A 327—Size 4. 8½ in. long. For champion or M tooth saws, 20 to 14 gauge. Ship. wt. 1 lb. 12 oz.....**$1.19**

84 A 328—Size 5. 15 in. long. For saws from 14 to 6 ga. Shipping weight 3 lbs. 8 oz.....**$2.45**

Ⓓ **84 A 272—Crossout Saw Set.** Complete set—filer joiner, raker gauge, side filer, anvil, and two-set gauge. Takes 8-inch file. Instructions included. Ship. wt. 1 lb. 8 oz. Complete set..... **32c**

For Saw Files See Page

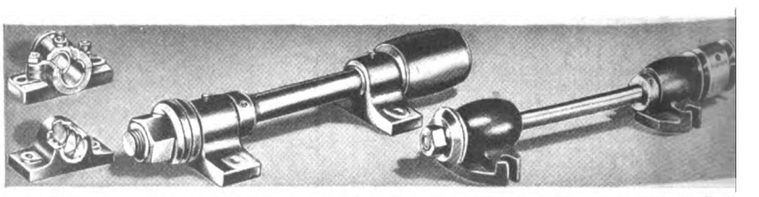


Wards Gumming Machine

$17.50 Cash — $2.50 Mo. See Back Cover

Eliminates the uncertainties of hand filing—does a uniform job every time. Arbor adjustable for any size saw from 24 to 48-inch diameter—and for any desired angle of hook to face of teeth. A blunt hook is best for hard knotty wood—a sharp hook for free-cutting wood. Has adjustments for gumming gullets to uniform depth and for joining rim in true circle. Grinder turns away from operator. With 6 by 1½-in. round face gumming wheel. **Mailed from** Factory near Kansas City, Mo. in about 10 days.

M287 A 2827—Wt. 57 lbs..**$17.50**



$1.59 Size 00 Lakeside — **$2.59** Size 00 Master

Wards Heavy Duty Saw Mandrels

Tested for perfect shaft alignment. Machined cast iron pillow blocks. Spring-cap oilers. Set screw holds pulley—use on shaft center or end. Machined collars hold saw true. Bolts included.

Lakeside Quality. *Heavy Babbitted Bearings* split to take up wear. Ring oilers built-in. Metal pulley. Green enamel finish. **State Mandrel Size.**

Master Quality. *Graphited Self-Lubricating Bronze Bearings.* Oil only when starting. Slip-proof comp. pulley—more power. Gray enameled. **State Size.**

Mandrel Size	Pulley Size, In. Dia.	Face	Lgth. Shaft In.	Diam. Shaft In.	Saw Hole Size In.	Maxim Size Saw In.	Lakeside Quality Ship. Wt. Lbs.	Lakeside Quality Left Hand Threads 484 A 295	Master Quality Ship. Wt. Lbs.	Master Quality Left Hand Threads 484 A 287	Master Quality Right Hand Threads 484 A 292
00	2	3	16	¾	½	8	10	$1.59	8	$2.59	$2.59
0	2	3	16	⅞	¾	10	10	2.10	9	3.25	3.25
1	3	4	16½	1 3⁄16	1	12	17	2.79	16	3.98	3.98
2	3	4	19	1 3⁄16	1 ¼	16	18	3.59	17	4.65	4.65
3	4	5	21	1 ⅜	1 ¼	22	27	4.60	23	5.98	5.98
6	5	6	28	1 7⁄16	1 ⅜	28	43	6.75	33	7.98	7.98
8	6	7	32½	1 9⁄16	1½	36	58	9.25	46	10.95	10.95

$2.29 Size 00 — Medium Duty

Double-V pulley for either flat belt or single or multiple V-belt drive. Ground and polished steel shaft. Machined steel collars. Set collar takes up end play. Saw runs true. Length 14 inches.

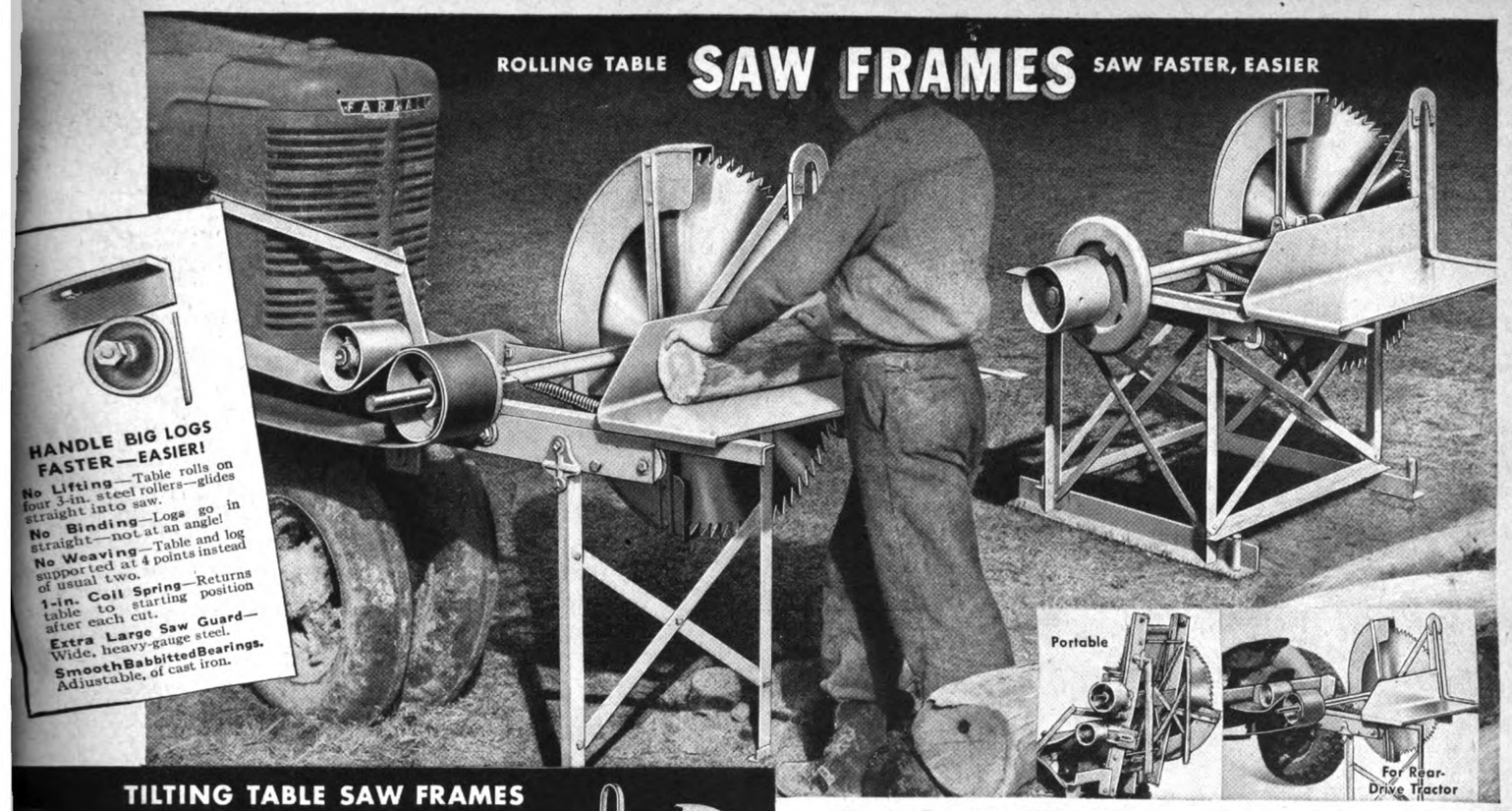
84 A 294—State size wanted.

Size 00—⅝-inch shaft turned to ½ in. at ends. Ship. wt. 7 lbs...$2.29

Size 0—¾-inch shaft turned to ⅝ in. at ends. Ship. wt. 8 lbs...$2.39

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ROLLING TABLE SAW FRAMES SAW FASTER, EASIER



TILTING TABLE SAW FRAMES



Tractor Frames—CUSTOM BUILT

Heavier, stronger, better built than most tilting table tractor Saw Frames . . takes small logs as well as cordwood. And it's CUSTOM BUILT to fit your own tractor—just like the Rolling Table Tractor Frames above. *Individually designed* fittings assure perfect installation on any of tractors listed at right—not so-called "universal fittings" as on ordinary frames.

$23.95 Cash
Without Saw
$3.50 a Month

Counterbalanced Tilt Return pushes saw table back to starting position at end of cut—gives perfect balance, speeds up sawing, makes work easier.

Frame Folds Up—Out of Way. Drops to sawing position when you change 1 bolt. Tractor can be backed when frame is attached. Frame of 2 by 2 by 3/16-in. angles cross-braced with strong, substantial steel tubings. Sheet steel table 31 in. wide, 15 in. deep, 30 in. high. 36-in. cold rolled steel mandrel, 1 7/16-in. diam., takes blades up to 32 in., with 1 1/8-in. hole. Heavy sheet metal saw guard gives maximum protection. 8-in. diam. cast iron pulley has 6-in. face. See table at right for tractors these frames fit, and for approximate belt lengths needed. **State make, year, and model of tractor.** Master Quality Cordwood blades. **Shipped from** Factory near Baltimore, Maryland in about 10 days extra. Terms, see Back Cover.

Blade Diam.	Article Number	Ship. Wt.	Price
None	287 A 3428	190 lbs.	$23.95
28-in.	287 A 3429	220 lbs.	31.70
30-in.	287 A 3430	224 lbs.	32.90
32-in.	287 A 3431	228 lbs.	33.90

Belt Tightener—For above frames. Increases traction. Fastens to frame with heavy cast bracket. Adjustable. 5-in. diam. pulley, 6-in. face.
287 A 6439—Ship. wt. 20 lbs. $3.75

Stationary Frames—Rigidly Braced

Why pay $25 to $35 elsewhere for a tilting table stationary frame without blade. At Wards you can buy a complete frame *with blade—and still save up to $7.* Built for heavy cordwood sawing—can be run cheaply with farm tractor, engine, or auto power.

$19.95 Cash
Without Saw
$3 a Month

Counterbalanced Spring Tilt Return. With Wards Tilting Table Stationary frames you get the exclusive advantage of spring tilt return (pictured above). Spring compresses when log is tilted into saw . . . returns table to starting position when log is cut.

Well-Braced Angle Steel Frame. Rigid frame is built of 2 by 2 by 3/16-inch angles, cross-braced with substantial steel flats for rigidity. Table is 12-gauge steel, 40 inches wide, 16 inches deep, 30 inches high . . . has same type of saw guard as on Rolling Table Frames above. Steel mandrel, 49 inches long, 1 7/16-in. diam., runs on adjustable split babbitted bearings (with oil holes) . . . takes blades up to 32-in. diam., having 1 1/8-in. hole.

Cast iron pulley has 6-in. face. Sold with or without 12-in. diam., 35-lb. balance wheel. (NOTE: *Heavy pulleys do NOT take the place of a balance wheel!*) **State diameter of pulley wanted (5, 6, 7, or 8-inch) and choice of right hand frame (pictured above) or left hand frame.** Saws are Wards Master Quality Cordwood Blades. **Shipped from** Factory near Baltimore, Md. in about 10 days. Terms, Back Cover.

Blade	Article Number	Without Bal. Wheel	Ship. Wt.	With 35-lb. Wheel	Ship. Wt.
None	287 A 3445	$19.95	213 lbs.	$22.40	248 lbs.
28-in.	287 A 3446	27.70	243 lbs.	30.15	278 lbs.
30-in.	287 A 3448	28.90	247 lbs.	31.35	282 lbs.
32-in.	287 A 3447	29.90	251 lbs.	32.35	286 lbs.

Tractor Frames—CUSTOM BUILT For Your Own Tractor

Save time . . . eliminate double log handling! Take a Ward Rolling Table Tractor frame right out on the job . . . handle big logs faster . . . turn out more cords per day.

$29.95 Cash
Without Saw
Terms, Back Cover

Custom Built to Fit Your Tractor. Each frame comes with special fittings, *individually designed* to fit each of tractors listed below . . . (not so-called "universal fittings" that are supposed to fit all tractors—fit none of them well). Frame fastens rigidly to tractor—no vibration . . . true-running operation. Folds up out of way (see inset). Won't interfere with cranking tractor.

Rolling Table—Heavy (12-ga.) steel, 15 in. deep, 33 in. wide. Frame is 48 in. long. Saw guards heavy sheet steel—channel table guard.

Mandrel—1 7/16-in. diam. cold-rolled steel, 5-in. cast collars. For saws with 1 3/8-in. holes. Babbitted, grooved, adjustable cast bearings.

Cast Iron Pulley—8-in. diam., with smooth, machined, 6-inch crown face.

Rigidly Braced—has 5/16 by 3 1/2-in. side bars, 1 1/2 by 1/4-in. angle tracks. 1 1/2 by 1 1/2 by 1/8-in. angle legs. Takes saws to 36-in. diameter. Master Quality Blades. Without belt tightener. **State make, year, model tractor.**

Article No.	Description	Ship. Wt.	Price
287 A 6434	Without Saw Blade	254 lbs.	$29.95
287 A 6435	With 28-in. Blade	284 lbs.	37.70
287 A 6436	With 30-in. Blade	288 lbs.	38.90
287 A 6437	With 32-in. Blade	292 lbs.	39.90
287 A 6438	With 36-in. Blade	304 lbs.	45.90

287 A 6439—Belt Tightener. Stops slippage. Adjustable. 5 x 6-in. pulley. Wt. 20 lbs. . . $3.75

Stationary Frames—For Heavy-Duty Cordwood Sawing

Specially designed for use with tractor, stationary engine, or auto power.

$23.95 Cash
Without Saw
Terms, Back Cover

Rolling Table. 12-ga. steel. Sheet steel saw guard, channel steel table guard.

Mandrels. 1 7/16-in. diam. high-carbon steel. Take saw with 1 3/8 in. hole. Adjust. cast babbitted bearings, 5 in. collars.

Rigid Frame. Braced with 1 1/2 by 1/8-in. angles.

Pulley. Cast iron, 6-in. machined face. Balanced.

Supreme Quality. Table 40 by 15 by 30 in. high. Frame 35 by 40 in., of 3 by 3 by 3/16-in. angles. Legs 1 1/2 by 1 1/2 by 1/8-in. angles. 50-in. mandrel. Tracks, 1 1/2 by 1 1/2 by 1/4-in. angles.

Superior Quality. Table 33 by 15 by 30 in. high. Frame 28 1/2 by 27 in., of 3 by 3 by 1/8 in. angles. Legs 1 1/2 by 1 1/2 by 1/8-in. angles. 44-in. mandrel. Tracks, 1 1/4 by 1 1/4 by 1/4-in. angles.

Master Quality Cordwood Saws (Supreme takes up to 36-in.—Superior, up to 32-in. saws). Balance wheel not included. **State diam. of pulley (5, 6, 7, or 8-in.) and choice of right hand (pictured) or left hand frame.**

Diam. of Blade	Supreme Quality Article Number	Wt. Lbs.	Cash Price	Superior Quality Article Number	Wt. Lbs.	Cash Price
None	287A6425	250	$29.95	287A6430	200	$23.95
28-in.	287A6426	280	37.70	287A6431	230	31.70
30-in.	287A6427	284	38.90	287A6432	234	32.90
32-in.	287A6428	288	39.90	287A6433	238	33.90
36-in.	287A6429	300	45.90			

287 A 3467—35-lb. Balance Wheel. Not sold separately. Ship. wt. 30 lbs. $2.45
287 A 3468—60-lb. Balance Wheel. Shipping weight, each, 60 pounds $3.75

Frames and parts above ***Shipped from Factory*** *near Baltimore, Md. in about 10 days extra.*

WARDS TRACTOR FRAMES FIT THESE TRACTORS—See Index for Belting

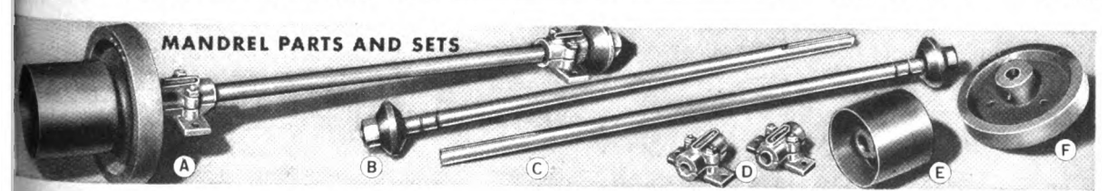
Tractor	Model	Belt
Allis-Chalmers	A	18 ft. 3 in.
Allis-Chalmers	B	8 ft. 7 in.
Allis-Chalmers	R-C	16 ft. 9 in.
Allis-Chalmers	U	15 ft. 11 in.
Allis-Chalmers	U-C	17 ft. 9 in.
Allis-Chalmers	W-C	16 ft. 9 in.
Allis-Chalmers	W-F	15 ft. 2 in.
Case	C	19 ft. 8 in.
Case	R-C	18 ft. 5 in.
Cleveland Centaur	General Klear View	10 ft. 11 ft. 5 in.
John Deere	A	17 ft. 10 in.
John Deere	A-1940	18 ft. 3 in.
John Deere	A-O	17 ft. 2 in.
John Deere	A-N	17 ft. 10 in.
John Deere	A-R	
John Deere	B	17 ft. 10 in.
John Deere	B-1940	18 ft.
John Deere	B-N	17 ft. 10 in.
John Deere	B-R	
John Deere	D	14 ft. 11 in.
John Deere	G	
John Deere	G-P	
John Deere	H-1940	18 ft. 5 in.
John Deere	L-Spec.	12 ft. 4 in.
Farmall	A and B	8 ft. 8 in.
Farmall	F-12	17 ft. 7 in.
Farmall	F-14	17 ft. 7 in.
Farmall	F-20	20 ft. 7 in.
Farmall	F-22	20 ft. 7 in.
Farmall	F-30	
Farmall	H-1939	18 ft. 6 in.
Farmall	M-1939	17 ft. 6 in.
Fordson	Prior to 1935	15 ft. 8 in.
Fordson (St'd)	1935–1939	15 ft. 1 in.
Fordson (All R'd)	1935	18 ft. 4 in.
International H	10-20	
Massey Harris	RC-101	20 ft. 1 in.
McCormick	10-20	16 ft. 5 in.
Minn. Moline	Universal "Z"	17 ft. 11 in.
Oliver	70 Row Crop	18 ft. 6 in.
Oliver	70 R.C.–1939	18 ft. 6 in.
Oliver	80 Row Crop	19 ft. 9 in.
Oliver Sampson	70 Standard L.H.	17 ft. 5 in.
Silver King	S-38	15 ft.
Silver King	S-44	15 ft.
Silver King	340–1940	
Silver King	660–1940	
Ward	Twin-Row	10 ft.

HOW TO CHOOSE A SAW

To Figure Diam. of Pulley Required on Stationary Saw:
1. Measure engine pulley diam.
2. Multiply by engine R.P.M.
3. Divide by R.P.M. saw should operate. Result is diam. of saw pulley required.

Speeds Saws Should Run: 28 in. at 1285 R.P.M.; 30 in. at 1200 R.P.M.; 32 in. at 1120 R.P.M.; 36 in. at 1000 R.P.M.

MANDREL PARTS AND SETS



Ⓐ Mandrel Sets—Build Your Own Saw Frame

Buy a complete set—save up to 10% over piece-by-piece costs. Parts included (mandrel, collars and nut, pulley bearing boxes, wheel) are described at right. **State choice** of Right or Left Hand Mandrel (B) or (C) above at left. **Shipped from** near Baltimore, Md. in about 10 days.

$6.69 Less Wheel

Without Balance Wheel *Mailable*				With 35-Lb. Wheel			
Pulley Diam.	Article No.	Ship. Wt.	Price	Article No.	Ship. Wt.	Price
5-inch	M287 A 3482	60 lbs.	$6.69	287 A 3470	95 lbs.	$9.69
6-inch	M287 A 3483	62 lbs.	7.05	287 A 3471	97 lbs.	10.05
7-inch	M287 A 3484	64 lbs.	7.45	287 A 3472	99 lbs.	10.45
8-inch	M287 A 3487	68 lbs.	7.85	287 A 3473	101 lbs.	10.85
9-inch	M287 A 3488	68 lbs.	8.29	287 A 3474	103 lbs.	11.29
10-inch	M287 A 3489	71 lbs.	8.69	287 A 3475	106 lbs.	11.69

Pulley Diam.	With 60-lb. Wheel Article No.	Ship. Wt.	Price	Pulley Diam.	With 60-lb. Wheel Article No.	Ship. Wt.	Price
5-inch	287 A 3476	120 lbs.	$10.79	8-inch	287 A 3479	126 lbs.	$11.95
6-inch	287 A 3477	122 lbs.	11.15	9-inch	287 A 3480	128 lbs.	12.39
7-inch	287 A 3478	124 lbs.	11.55	10-inch	287 A 3481	131 lbs.	12.79

Save Money at Wards on Quality Saw Mandrel Parts

For making your own or repairing old saw frames. **Mailed from** near Baltimore, Md. in about 10 days. Sold only with specifications shown.

Balanced Mandrel Shafts
Machined cold rolled special analysis steel. 49 in. long. 1 7/16-in. diam. with 5-in. cast collars, hexagonal nut. Take saws with 1 3/8-in. hole. Balanced and true-running.

Ⓑ **M287 A 3463**—Left Hand Mandrel. Ship. wt. 33 lbs. $3.79
Ⓒ **M287 A 3462**—Right Hand Mandrel. Ship. wt. 33 lbs. . . $3.79

Babbitted Bearing Boxes
Ⓓ Cast iron. Flat, split type, adjustable. Grooved to prevent endplay. 1 7/16-in. bore. Oil holes.
M287 A 3465—Pair.
Shipping weight 15 lbs $2.19

Ⓔ **Cast Iron Pulleys**—Smooth, machined 6-in. face, for up to 6-in. belt. 1 7/16-in. bore. With large set screw.

Diam.	Article No.	Ship. Wt.	Price
5-in.	M287 A 3450	12 lbs.	$1.49
6-in.	M287 A 3451	14 lbs.	1.85
7-in.	M287 A 3452	16 lbs.	2.25
8-in.	M287 A 3453	18 lbs.	2.65
9-in.	M287 A 3454	22 lbs.	3.10
10-in.	M287 A 3455	25 lbs.	3.49

Ⓕ **Cast Iron Balance Wheels**—1 7/16-in. bore, with large set screw. Recommended where less than 10 H.P. is used. *Only M287A 3458 is Mailable.*

Diam.	Net. Wt.	Article No.	Ship. Wt.	Price
12 in.	35 lb.	M287A3458	40 lbs.	$3.19
17 in.	60 lb.	287A3459	65 lbs.	4.39
17 in.	90 lb.	287A3460	95 lbs.	5.59



CONTRACTOR'S UTILITY SAW

For Forms, Crating
$16.95 Cash
Terms, See Back Cover

For sawing wood into forms, rafters, etc., or for cutting up light logs into cordwood. Table 24 by 14 by 30 1/2 in. high. Steel guide rail adjustable for width of cut. Takes up to 12 in. diam. crosscut or rip saws with 7/8-in. center hole. 2-in. V-pulley takes "A" size belt. Shelf for engine or motor. Ht. from shelf to mandrel, 23 in. Hinged saw guard. Steel mandrel, babbitted bearings. **Shipped from** near Wichita, Kan. in about 7 days.

287 A 6446—Frame only with 2-in. pulley. No saw, belt or engine included. Ship. wt. 85 lbs. Cash . . **$16.95**
287 A 6447—Frame with 2-in. pulley and 12-in. Eclipse Quality Combination saw. Wt. 91 lbs. Cash **$20.95**
287 A 6448—With pulley, belt, saw, and 1-H.P. gas engine. Wt. 135 lbs. . **$48.95**

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From Logs to Finished Millwork with

WARDS SAWMILLS



FREE 12-PAGE SAWMILL BOOK

Convert your own timber into a cash crop . . . get extra profits from sawing for your neighbors, making crating, lath, siding, shingles, etc. You can do all these jobs with the mills and attachments in Wards FREE 12-Page Book. Below you see only a few of the values in Wards full line of lumber handling equipment—read about them *all* in this Free Book. Whole pages of accessories . . . big selection of blades . . . everything you need to go into business. WRITE TODAY!

Complete Wood Carriage Sawmill for Only $9 a Month on Credit!

$123.45 Cash
COMPLETE
$9 Month
See Back Cover

Why pay others to saw wood for you? Why buy lumber when it's growing right on your farm! Be your own sawyer . . . get the *full* cash value from your trees with a Ward Saw Mill. Many owners have saved enough from sawing for one building to pay for their mill.

Designed for Average Farm Duty. Wards Wood Carriage Mill gives you sawing features you'd never expect for so little money. So accurate it saws 1/16-in. veneer to perfect uniform thickness . . . yet built to handle heavy cuts in 24-in. thick logs without jamming. Uses only 12 to 20 Brake H.P.—run it with farm tractor, auto, or engine.

Douglas Fir Wood Carriage. Strongly bolted, tight-fitting joints—won't warp. Carriage slides easily on V-type steel track (included for installation on base). Fitted with positive-grip top dogs, head blocks (24-inch opening), precision set works, and base hardware.

Precision Set Works. Permits settings to *sixteenths of an inch*—gives you sawing accuracy equal to that of mills costing many dollars more elsewhere! Lever-operated by compound pawl. Ratchet wheels on set works engage grooves in steel-capped carriage knees to regulate thickness of cut. Automatic gauge can be set for uniform repeat thicknesses . . . overhead scale gauge is used for coarse and random thicknesses and can be set quickly.

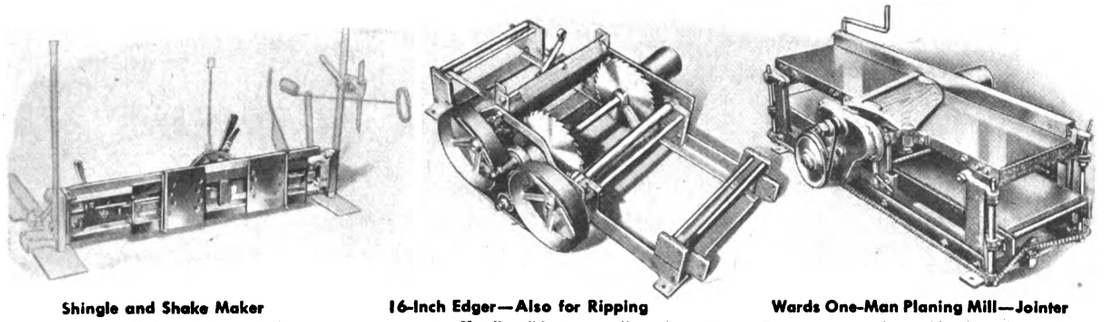
Mandrel Assembly. 54-inch, cold rolled steel mandrel (takes saw with 1 3/16-in. hole) with collars and nut. Mandrel turns in babbitted bearing boxes. Assembly includes cast saw guide, lead adjusters, set collar and arbor nut wrench. All-steel 6¾-in. crown face pulley (for 5 or 6-in. belt). **When ordering, state speed of engine and diam. of engine pulley** so that we can furnish sawmill pulley of correct diameter.

$10 Set of Licensed Plans for Base Included. Wood base not included because you can build it from plans we include—save on freight.

With Swage Set solid tooth saw and hand crank feed. If ordered without saw, **be sure to state speed at which saw you have is hammered to operate. Shipped from Factory** near Kansas City, Mo., usually in about 14 additional days.

For Logs To		Article Number	Carriage Length	Without Saw		With 36-in. Saw	
Length	Diam.			Ship. Wt.	Price	Ship. Wt.	Price
10 ft.	24 in.	287 A 2763	6 ft.	513 lbs.	$98.50	571 lbs.	$123.45
14 ft.	24 in.	287 A 2764	10 ft.	613 lbs.	123.50	671 lbs.	148.45
20 ft.	24 in.	287 A 2765	12 ft.	847 lbs.	139.50	907 lbs.	164.45

For more description, additional sizes—Steel Carriage Mills—and full line of attachments, write for FREE 12-Page Sawmill Book!



Shingle and Shake Maker

$29.95 Cash
$4 Mo., See Back Cover

Make shingles and shakes with your Sawmill for extra profits. Attachment fits Wood Carriage Mills and Wards latest model Steel Carriage Sawmills. Makes any length tapered cut from 12 to 32 in.—can be used for dogging short dimension stock. Oscillating lever on head block controls amt. of taper. Rapid double vise action jaws, with rack and pinion operation, are held closed by ratchet. Easy to remove for regular sawing. *Details in* FREE *Sawmill Book.* **Shipped from** near Kansas City, Mo. in about 14 days.

287 A 2822—Ship. wt. 75 lbs. **$29.95**

16-Inch Edger—Also for Ripping

$99.50 Cash
$8 Mo., See Back Cover

Handles all but coarse dimension cuts—increases lumber output. Has 20-in. width clearance—double-edges 2½ to 16-in. wide stock. Adjustable guide fence for single-edging boards and for simultaneous edging and ripping. Add an extra saw for double ripping and edging. Shift saw has 10-in. travel; guide fence, 6-in. travel. Position of fixed saw adjustable: 2 feed speeds—50 and 90 ft. per min. at 2000 R.P.M. 1¼-in. arbor runs on babbitted bearings. With two 12-in., 8-ga. edging saws. Max. depth of cut 4½ in. Requires 5-H.P. Has 5x6-in. pulley. Steel and iron frame. Size: 53 x 34 x 20 in.

More Details in FREE Sawmill Book. Wt. 350 lbs.

287A2871—Shipped from Kansas City, Mo., usually in about 14 additional days. **$99.50**

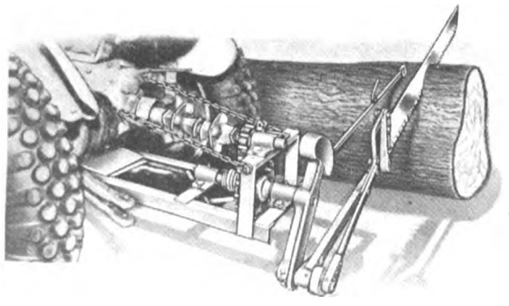
Wards One-Man Planing Mill—Jointer

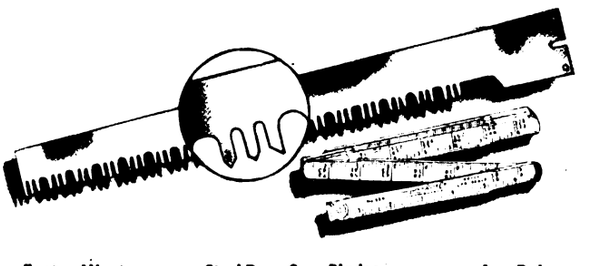
$134.50 Cash
$10 Mo., See Back Cover

A combination planer-jointer that finishes both edges and sides of lumber one side at a time. Has 2 tables—lower used for planing. Hand crank synchronized with corner screws—table setting adjusts fine as 1/64th in. Ball Bearing cutterhead has 4 steel planer knives, 1-in. sq. steel arbor. Self aligning chip breaker permits deep cuts without slivering. Jointer has safety guard over cutter, adjust. guide fence. Takes boards up to 12 in. wide, 5½ in. thick. 4x4-in. arbor pulley. 57x30x18 in. **Shipped from** Kansas City, Mo., usually in about 14 additional days.

287 A 2870—Uses 5-H.P. Wt. 555 lbs. . **$134.50**

FREE Sawmill Book Gives Full Description.





WARDS TRACTOR DRAG SAW — Cuts Nearly a Foot a Minute

$52.95 Cash
$5 Mo., See Back Cover

Saws at wood lot or woodpile—wherever a tractor will go. Saves time—cuts a 3-ft. cottonwood log in 4 minutes. Economical to operate—runs at idling speed. Heavy steel and iron construction. Rear drive power takeoff operates heavy 10-ga. 5-ft. steel drag saw blade at 160 strokes per minute, 19½-in. stroke. Eccentric drive rocks blade to clean out cut at each stroke.

Safety clutch prevents damage to blade. Alemite-Zerk fittings. With log dogs, blade, and attachments necessary to install on tractor models listed. Instructions. **Shipped from Factory** near Sioux City, Ia. in about 14 days. **State make, year, model of tractor.**

1108 WARDS - A

287 A 3498—For Farmall F-12, F-14, F-20, F-30. Ship. wt. 140 lbs. **$52.95**

287 A 3499—For all other tractors with rear power takeoff including Ward Twin Row; Farmall A, B, H, M; Case C, CC, DC, RC; I.H.C. 10-20; Oliver 70, 80; Massey-Harris Twin Power; Allis Chalmers B, WC, RC; Graham Bradley, Ford Ferguson. Ship. wt. 180 lbs. **$59.95**

Steel Drag Saw Blades

$6.39 5-ft.

Made of finest quality, heavy (10-gauge) steel. Have double cutting teeth and single rakers (see inset). 8 inches wide at butt, 6 inches wide at point. When ordering, send a diagram on heavy paper showing location of bolt holes, if any. **Mailed from Factory** near Indianapolis, Ind. in about 15 days extra.

M287 A 5015—Five-foot blade. Ship. wt. 10 lbs. Each **$6.39**

M287 A 5016—Six-foot blade. Ship. wt. 13 lbs. Each **7.59**

Log Rule

49c

Genuine "Lufkin" folding rule. 4 ft. long, graduated by Doyle scale. Shows board foot content of any 10, 12, 14, 16, or 18-ft. log up to 48-in. diam. Also marked in inches. Ship. wt. 6 oz.

87 A 2833—Ea. **49c**



Lakeside Axe $1.48

Michigan Pattern—Bursts chips without sticking.

Carbon Steel—Drop-forged; tempered; hardened. Red finish head, poll; blue bevels. Honed to keen edge.

Sturdy Handle—Straight-grain, second-growth hickory; wedged in tapered eye; oval; 30 or 36-in. Ship. wt. 7 lbs. **State 3½ or 4-lb. head; Handle length.**

484 A 1768. . . . . **$1.48**

Master Axe $1.89

Connecticut Pattern—No sticking; bursts chi

High Carbon Steel—Drop-forged; tempere hardened. Head bright; Bit honed to keen ed polished.

Fire Hardened Handle—select hickory—tough more durable; wedged tapered eye—head can't off; oval; 30-in. Ship. wt lbs. **State 3½ or 4-lb. he**

484 A 1773. . . . . $1.



Drop Forged Steel Sledges, Mauls

Heat-treated, tempered. Faces polished. Shipping weight and actual weights are the same.

Sledge—Blacksmith's. State weight.
584 A 6975—
8-lb. **$1.19**
10-lb. **1.39**

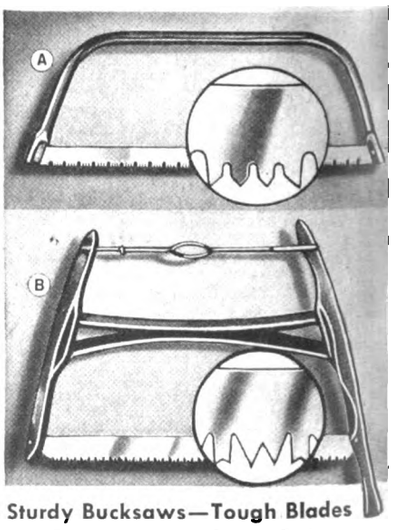
Sledge—Oregon Pattern. State weight.
584 A 6977—
8-lb. **$1.19**
10-lb. **1.39**

Splitting Ma
Oregon Patter
Keen, tough ed
that holds.
584 A 1736—He
only. 8-lb. $1.4

Handles for Sledges and Mauls

Strong seasoned hickory. For above, or similar.

484 A 1737—36-in. Ship. wt. 2 lbs. Each. 3



Sturdy Bucksaws—Tough Blades

Two-Way **$1.79** 30-in. Master
Champion-Tooth **98c** 30-in. Lakeside
$1.49 30-in. Master

(A) Swedish Type—Two-Way Cut—Master Quality

- **Cuts on Both Up and Down Strokes.**
- **Swedish Steel Blade—Fast, Smooth.**

Fastest Bucksaw we know of. Won't bind. Swedish steel blade, 1⅜ in. wide, tempered, hardened, hand filed, and set. Strong tempered tubular steel frame. Lacquered. Ship. wts.: 2 lbs. 8 oz.; 3 lbs. **State Size Wanted.**

584A148—Complete. **30-in. saw, $1.79; 36-in. saw. $2.**

Extra Blades for Two-Way Bucksaws

Quality, width, as above. Ship. wts.: 10 oz., 13 oz.

84 A 149—**State size. 30-in.** . . . **79c; 36-in.** **98**

(B) Champion-Tooth Style Bucksaws

- **Two Keen Cutting Teeth to One Raker Tooth.**
- **Special Refined Steel or Chrome Alloy Steel.**

Lakeside Quality. Special refined saw-steel blade, 30 by 1⅜ in. Double braced hardwood frame with turnbuckle, rod, for adjustment. Red finish. High quality bucksaw—will give better service than most at this price. If you use saw hard or often, consider Wards Master Quality. Ship. wt. 4 lbs. 12 oz.

584A146—Complete **98c**

Master Quality. Chrome alloy steel blade—35 to 40% longer life than other steel—holds edge, set better. 2-gauge tapered for smoother, easier cutting. Tempered, hand filed, set. 30 by 1¾ in. blade. Double-braced hardwood frame—red enameled. Galvanized turnbuckle and rod. Ship. wt. 4 lbs. 8 oz.

584 A 152—Complete **$1.49**

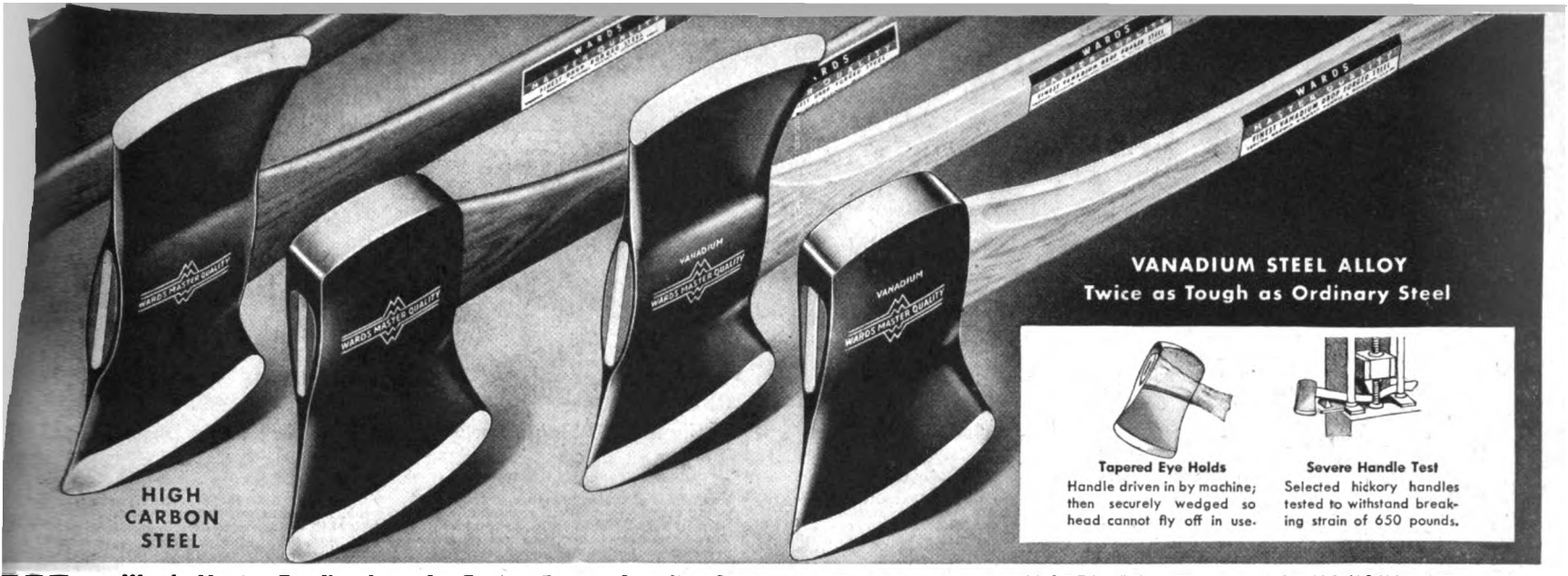
Extra Blades for Champion-Tooth Bucksaws

Exactly same qualities, size, as supplied with saws above.

Lakeside. Ship. wt. 11 oz.
84 A 158. . . . . **39c**

Master. Ship. wt. 1 lb.
84 A 153. . . . . **59c**

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Wards Master Quality Axes for Easier, Faster, Steadier Cutting

$1.89 Single Bit High Carbon

Tough High Carbon Tool Steel. Drop forged, tempered, hardened. Bits carefully hand-honed to keen, lasting edges—polished. Smooth black finished heads—rust resisting.

Handles Fire Hardened. Preserves the wood—gives long-lasting strength without brittleness. Smooth finish without paint or lacquer. Straight-grained, second-growth hickory; oval shape; 30 or 36 in. long; securely wedged in tapered eye—head can't fly off. (See right, above.)

Michigan Pattern. Bursts chips without sticking.

Superior Workmanship to produce fine, lasting, balanced axes. 3½ or 4-lb. head. Ship. wt. 7 lbs. *Mailable.*

484 A 1771—Single bit. State Weight, Length..$1.89
484 A 1772—Double bit. State Weight, Length . 2.25

$2.19 Single Bit Vanadium

Wards Finest—Vanadium Steel Alloy. Axes to satisfy the most exacting lumberjack or prove their worth in general use. Made by leading axe maker who declares there are none better available, at any price.

Twice as Tough. Test at least .15 Vanadium (S.A.E. Spec.)

Excelsior Handles. 3 grades better than found in many axes at similar prices. Sure-grip octagon shape. 30 or 36 in long.

Michigan Pattern. Bursts chips—clean cutting—no binding.

Master Workmanship, to obtain the most in balance, performance and service from the finest materials—to produce the ideal axe. (See right.) Extra-smooth Black rust-resisting heads. Wt. 7 lbs. *Mailable.* **State Choice:** 3½, 4 or 4½-lb. head; Lgth. Hdle.
484A1780—Single Bit...**$2.19**; **484A1781**—Double Bit..**$2.59**
584A1782—Head Only. Double Bit. Ship. wt. 5 lbs..... 2.19

IMPORTANT FACTS IN CHOOSING YOUR AXE

Here are the features of an ideal axe: (1) Takes, holds keen edge. (2) Cuts deeply, bursts chips, comes out cleanly without sticking. (3) Perfect balance for easy, sure swinging. (4) Durable—head and handle. (5) Head won't fly off or wobble. These features depend upon quality of Steel, Design, Processing, Grade of Hickory, Workmanship. All Ward axes at left are true to pattern—have correct bevel, balance. All have handles secured as pictured above. All are drop-forged, tempered, hardened, with finely honed, polished bits. They vary in grade of steel and handles, in fineness of workmanship. We are positive there is no finer axe steel available than our Vanadium Alloy—twice as tough as usual axe steel. Contrast Wards minimum of .15 vanadium (S.A.E. specification) with the .00, .04, and .08 which some other axes described as "vanadium", and sold at similar prices, tested. Wards Master Quality carbon axe steel is grade accepted as best before vanadium steel was used. Lakeside Quality carbon steel is tough, serviceable. All have handles of straight-grained, second-growth hickory but selection, shaping and finishing add toughness, balance, in Master Quality. Detailed descriptions given at left.



Low As **19c**

Drop Forged Wedges

Tempered tool steel. Oil finish hardened bits—sharp edges—split toughest logs. Shipping weights and actual weights are the same. State Weight wanted.

Truckee (Left)	Square Head (Right Above)
3-lb. 8¾-in..55c	584 A 1732—
4-lb. 9¾-in..69c	4-lb. 8¾-in...45c
5-lb. 11-in...85c	5-lb. 9-in.....59c

Include Wedges in Time Payment Order.

Straight-Grain, Second-Growth Hickory Axe Handles

Polished, waxed. *All Mailable.* Ship. wt. each 2 lbs.

Master Quality Octagon Pattern. Grade AA seasoned white hickory, carefully selected. Hand shaved. Tough. 36 in. long.
484 A 1750—Single Bit..**49c**; **484 A 1756**—Double Bit.**49c**

Master Quality Oval Pattern. Single bit only.
484 A 1758—28-in.....**39c**; **484 A 1759**—30-in.....**49c**

Lakeside Quality Oval Pattern. Grade A hickory. 36-inch.
484A1752—Single Bit..**33c**; **484A1751**—Double Bit...**33c**
484 A 1747—Eclipse Quality. Oval. Single bit. 36-in...19c

85c

Short Handle Axe

- **Medium Weight Head.**
- **Drop Forged Steel.**

Eclipse Quality. Serviceable Axe for occasional home or farm jobs. Head 2¼ lbs.; tempered; forge finish. Stained 19-in. hickory handle. Ship. wt. 3 lbs.

84 A 1669—Each....85c

98c

Low Priced Axe

- **Full Size 3½-Lb. Head.**
- **Drop Forged Steel.**

Michigan pattern. Eclipse Quality. Tempered, heat-treated head. Ground and polished bit. 30 or 36-inch stained hickory handle. Wt. 5 lbs. **State Lgth. Hdle.**

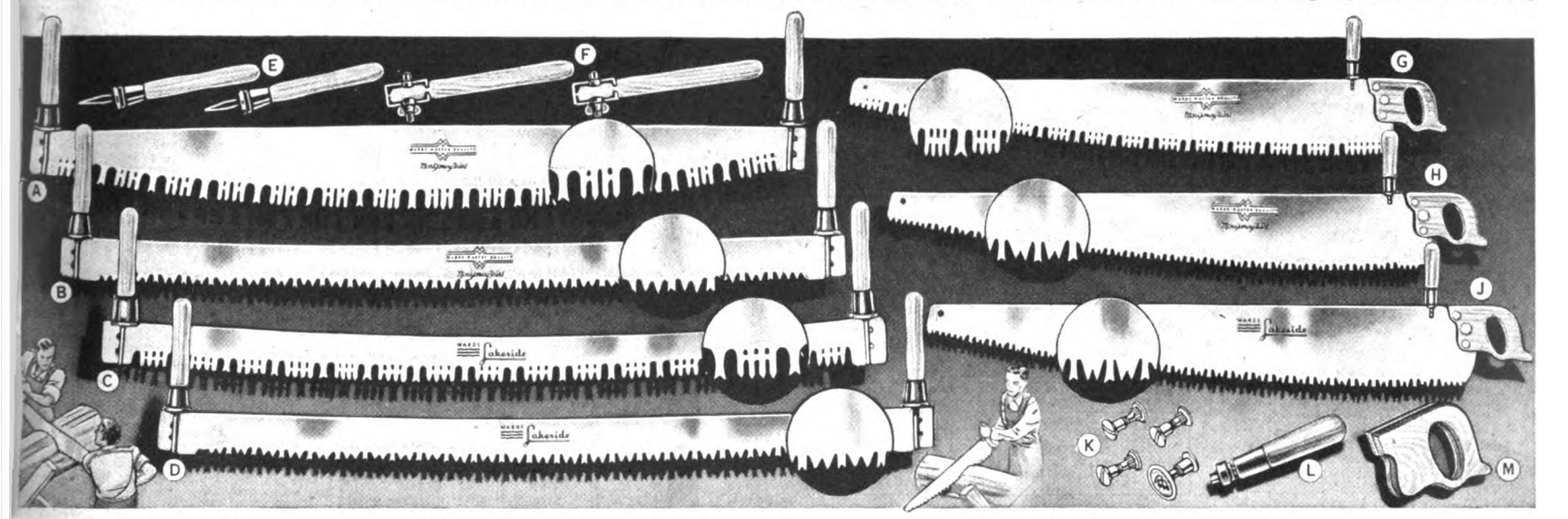
484 A 1713—Each...**98c**

$1.19

Boys' Lakeside Quality Axe

- **Tough Drop-Forged Steel Head.**
- **Select Seasoned Hickory Handle.**

A fine Axe for a boy—a real working tool. Handy for adults, too. 2½-lb. head, heat-treated; tempered; black finish; honed and polished bit. Handle 28 inches long; securely wedged; lacquered white; red tip.
484 A 1710—Boys' Axe. Wt. 4 lbs...**$1.19**
484 A 1715—Extra Handle for above boys' axe. 28-in. long. Ship. wt. 1 lb.....29c



Two-Man Saw Handles

Made of select, seasoned hickory.

Wire Loop Type

(E) Wire loops clamp on end of blade. Tightened by turning handle. 10¾ in. long. Wt. 2 lbs. 4 oz.
84 A 231—Pair.....**59c**

Wing Nut Type

(F) Fasten with wing nuts. Malleable castings. Fit holes at end of blade. 13¾ in. long. Wt. 2 lbs. 8 oz.
84 A 233—Pair.....**59c**

FASTER—EASIER—CLEANER CUTTING WITH BEST QUALITY TOOLS

It's easy to enjoy the advantages of the best woodcutting tools and the accessories needed to keep them in top shape. Best tools in best condition mean more production, better work in less time with less effort. Simply make out a list of the tools you need. For example:

484 A 1780 Vanadium Steel Axe.$2.19
484 A 208 Six-ft. 2-man Saw.... 6.10
84 A 328 Morrill Saw Set..... 2.45
Master Axe Stone..... .43
584 A 1735 Six-pound Wedge.... .69
Total.....$11.86

Add sledges, splitting mauls, buck-saws, circular or cordwood saws—any other items Wards sell. Then make out a Ward Time Payment Order and pay a little each Month—only $2 on any order totaling $10 to $14.00. Down payment on a $14.00 order is only $2. Buy the Best and pay while you use. See Inside Back Cover for complete details.

Fast Cutting Two-Man Type Crosscut Saws

$4.69 5-Ft. Lance Tooth Less Handles

Wards Master Quality
- **Chrome Alloy Steel.**
- **35 to 40% Longer Life.**
- **Taper or Flat Ground.**

$2.85 5-Ft. Champ. Tooth Less Handles

We believe these saws are made of the finest saw steel available. Tests prove that a saw of this chromium alloy lasts 35 to 40% longer in use than one of carbon steel. Careful, skilled workmanship is combined with superior steel to produce saws that will stand hard use with minimum attention—hold keener edges and set longer. Processed by master saw makers—heat treated in electrically controlled furnaces; tempered; hardened; hand filed and set; polished. Offered in 2 patterns, 3 lengths, as described below. The taper ground type cuts more smoothly—eliminates binding—well worth the difference in price to most users. *All are Mailable.*

Perforated Lance Tooth—Wide—Taper Ground

(A) Has 4, sharp, long beveled cutting teeth to 1 raker. Deep, wide, sawdust-freeing gullets. Double taper ground—14-ga. at teeth—17-ga. at ends, 19-ga. at center of back. Will not choke or bind.

State Art. No., Length Wanted

Saw Length	484 A 207 Ship. Wt.	484 A 207 Without Handles	484 A 208 Ship. Wt.	484 A 208 With Handles
5 ft	4 lbs.	$4.69	5 lbs.	$5.19
5½ ft	4 lbs.	5.19	6 lbs.	5.69
6 ft.	5 lbs.	5.59	7 lbs.	6.10

Champion Tooth—Narrow Pattern—Flat Ground

(B) Has two sharp cutting teeth to one raker. Flat ground—14-gauge throughout. Teeth properly set. Deep, sawdust-freeing gullets. Blade 3¼ inches wide. Set keeps saw from binding.

State Art. No., Length Wanted

Saw Length	484 A 201 Ship. Wt.	484 A 201 Without Handles	484 A 203 Ship. Wt	484 A 203 With Handles
5 ft.	4 lbs.	$2.85	5 lbs	$3.25
5½ ft.	4 lbs.	3.10	6 lbs	3.50
6 ft.	5 lbs.	3.45	7 lbs.	3.85

Read about Wards 3 qualities—GOOD, Eclipse; BETTER, Lakeside; and BEST, Master—on Hammer page.

$1.79 5-Ft. Champ. Tooth Less Handles

Lakeside Quality
- **Refined Steel.**
- **Hand Set, Filed.**
- **Tempered; Hard.**

Quality equal to best carried in many stores. Only a Saw equal to Wards Master Quality (left) is better. All processing by skilled saw makers. Flat ground, 14-gauge blade. Teeth properly set to prevent binding. 3¼ in. wide at ends and center. Deep sawdust freeing gullets. *All Mailable.*

Perforated Lance Tooth

(C) **Narrow Pattern.** 4 sharp cutting teeth to one raker. Hollow back. **State Article No., length wanted.**

Saw Length	484 A 225 Ship. Wt.	484 A 225 Without Handles	484 A 214 Ship. Wt.	484 A 214 With Handles
5 ft.	4 lbs.	$2.35	5 lbs.	$2.69
5½ ft.	4 lbs.	2.59	6 lbs.	2.89
6 ft.	5 lbs.	2.85	7 lbs.	3.15

Champion Tooth Type

(D) **Narrow Pattern.** 2 sharp cutting teeth to one raker. Hollow back. **State Article No., length wanted.**

Saw Length	484 A 200 Ship. Wt.	484 A 200 Without Handles	484 A 202 Ship. Wt.	484 A 202 With Handles
5 ft.	4 lbs.	$1.79	5 lbs.	$2.15
5½ ft.	4 lbs.	1.98	6 lbs.	2.33
6 ft.	5 lbs.	2.20	7 lbs.	2.55

Fast Cutting One-Man Crosscut Saws

$2.85 3-Ft. Champ. Tooth

Wards Master Quality
- **Chrome Alloy Steel.**
- **35 to 40% Longer Life.**
- **Taper Ground—No Bind.**

Same steel, processing, skilled workmanship as in Wards Master Quality two-man saws at left—tempered, hardened, hand filed and set, polished. We believe there are no finer saws available. Double taper ground—thinner back of teeth to eliminate binding, even in wet or green wood. Gauges shown in table below. Two patterns: (G) **Perforated Lance Tooth**—4 sharp cutting teeth to one raker; (H) **Champion Tooth**—2 sharp cutting teeth to one raker. Both with one-man and supplementary handles—saw drilled so latter can be moved to other end to make two-man saw. *Mailable.* **State Article Number, Length Wanted.**

Saw Lgth. Ft.	Ship. Wt. Lbs.	Gauges of Taper Edge at Teeth	Gauges of Taper Back at Pt.	Gauges of Taper Back at Hdle.	(G) 484 A 219 Lance Tooth	(H) 484 A 217 Champion Tooth
3	5	16	17	18	$2.99	$2.85
3½	6	16	17	18	3.49	3.35
4	7	16	17	18	3.98	3.80
4½	8	15	16	17	4.49	4.25

Seasoned Hardwood Handles—Screws—For One-Man Saws

(L) **Supplementary Handle.** Easily attached—Simply turn handle to tighten. 5¾ inches long.
84 A 238—Ship. wt. 8 oz. Each.....**23c**

(M) **Main Handle.** Smooth finish. Not bored. Screws not included.
84 A 240—Ship. wt. 12 oz. Each.....**27c**

Satisfaction or your money back. Wards famous 69-year old guarantee.

$1.85

Lakeside Quality
- **Refined Steel.**
- **Hand Set, Filed.**
- **Tempered; Hard.**

3-Foot

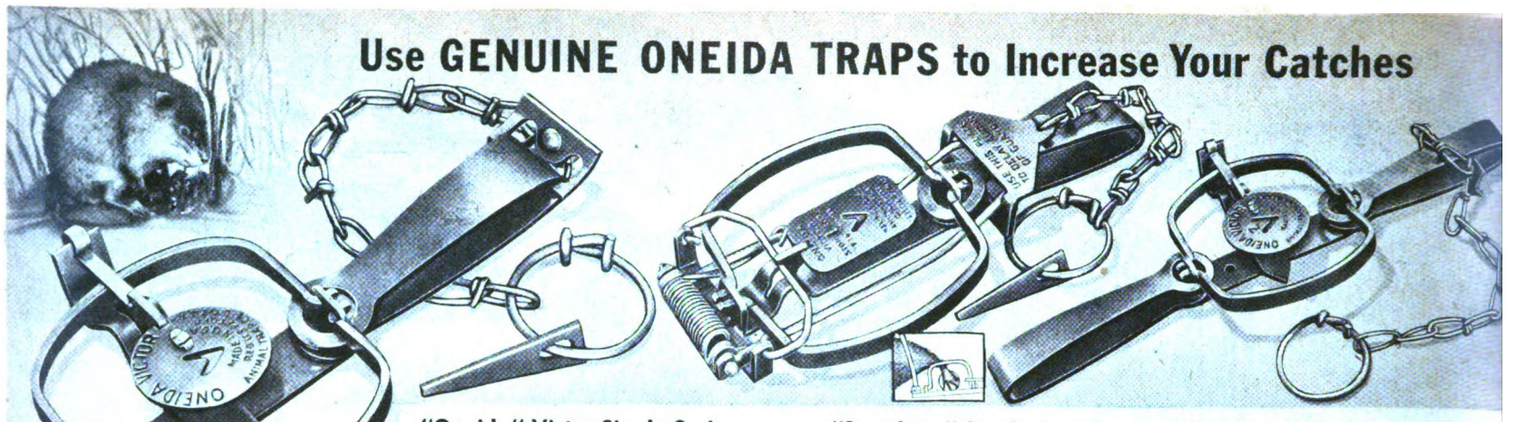
Quality equal to the best carried in many stores and sold at higher prices. Only a saw equal to Wards Master Quality at left is better. Tempered, hardened, polished. Properly set to prevent binding. Four-foot saws and less are 16-gauge; 4½-foot saws 15 gauge; flat ground. All are Champion Tooth Pattern with two sharp cutting teeth to one raker. Deep sawdust-freeing gullets. Saw s come complete with one-man and supplementary handles—saw is drilled so latter can be moved to make a two-man saw. *Mailable.* **State Length Wanted.**

(J) Saw Length	Ship. Wt.	484 A 215
3 ft.	5 lbs.	$1.85
3½ ft.	6 lbs.	2.15
4 ft.	7 lbs.	2.45
4½ ft.	8 lbs.	2.75

(K) **Four Brass Screws.** For use with Main Handle No. 84 A 240 listed at left and pictured above.
84 A 83—Ship. wt. 3 oz. Set.....**15c**

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Use GENUINE ONEIDA TRAPS to Increase Your Catches



"Oneida" Victor Single Spring

20¢ Each SIZE 0 **$2.00** Dozen

• Strong... fast... tight-gripping. Patented tempered steel spring gives jaws 50% greater holding power than old style! Suitable for land or water sets.

Easy to conceal. Strong, close fitting steel jaws. Working parts can't clog or freeze. Easy set, positive hold trigger. Steel coil chains with rings. Sizes 1 and 1½ have drive pins.

Article Number	Size	Jaw Spread	For Catching	Each	Ship. Wt.	Per Doz.	Ship. Wt.
584A8000	0	3⅜ in.	Barn Rat, Gopher, Weasel	20c	14 oz	$2.00	6 lbs.
584A8001	1	4 in.	Muskrat, Woodchuck, Skunk, Mink	23c	1 lb.	2.39	8 lbs.
584A8002	1½	4¾ in.	Marten, Mink, Skunk, Woodchuck	39c	1½ lbs.	3.86	13 lbs.

Trap Guard Prevents Pull-outs, Wring-offs, etc.

Ⓐ **Victor Trap Guards.** Prevent gnawing and wring-offs. Easily attached to any No. 1 long spring trap. Coil spring clamps Guard over animal's leg.

84 A 8015—Ship. wt. each. 8 oz. Each.18c, Per Doz...$1.77

"Stop-Loss" Single Spring

35¢ Each SIZE 1 **$3.54** Dozen

• Has "delayed action" feature—"Stop-loss" guard remains set until animal is firmly held by regular trap jaws. Animal moves Trap—releases extra "stop-loss" guard—prevents pull outs, wring-offs, etc.

"Oneida" Victor Size 1. Used by most professional trappers because extra holding power of the "stop-loss" guard makes them practically escape-proof. Guard moves up to hip or shoulder after animal is caught (See small picture above.)—holds firmly—prevents bone breakage, wring-offs, gnawing away, etc. *Increases number of catches because fewer get away.* Guards trapping profits. Redesigned for added strength where most needed—new "longer life" tempered steel spring. Hardened steel jaws—4-in. spread. Primarily for muskrat—also catches woodchuck, raccoon, marten, skunk, mink and opossum. 15-inch coil chain and drive pin. Include a dozen in your Time Payment Order. Ship. wt. each 14 oz.; per doz. 10 lbs.

584 A 8013—Each....35c; Per Doz..$3.54

"Oneida" Victor Double Spring

54¢ Each SIZE 2 **$5.38** Dozen

• Catch and hold larger animals such as Coyote, Lynx, Badger, Otter, Wolf, etc.

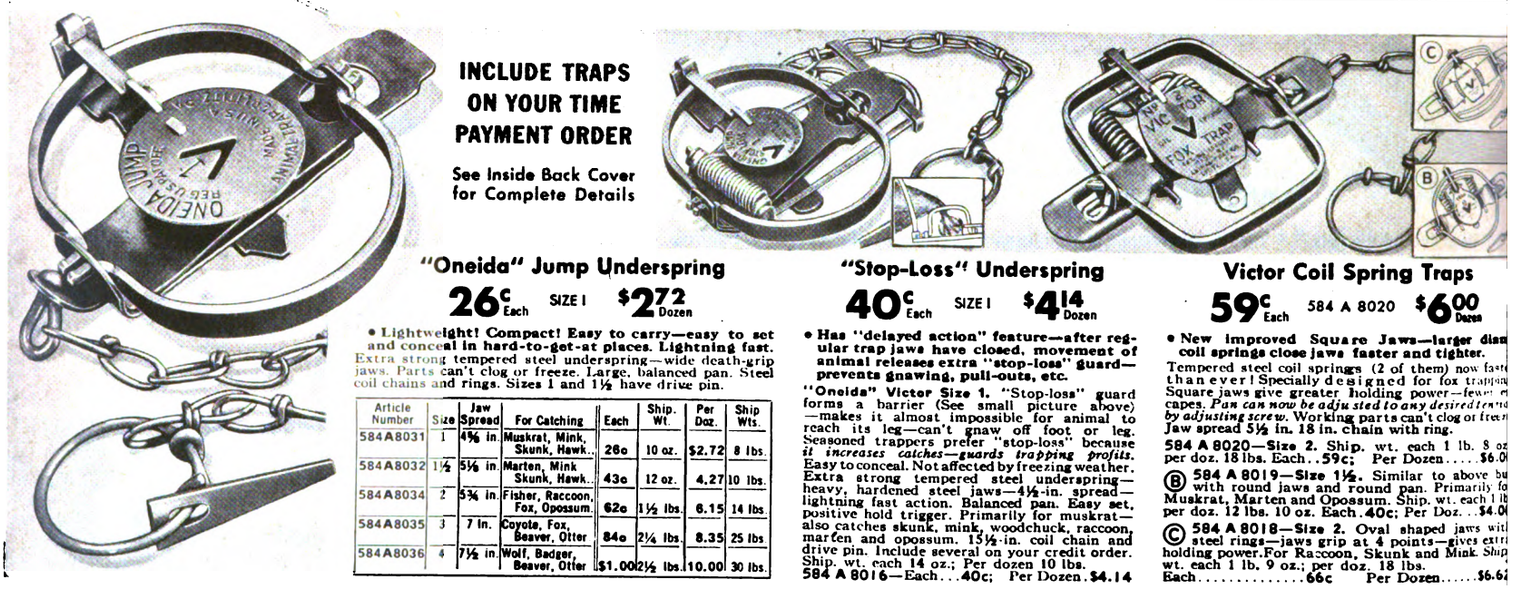
• Double springs give double holding power!

Two extra strong, high-tension tempered steel springs give uniform grip entire length of jaw. Lightning fast—working parts can't freeze or clog. Extra wide jaws help prevent bone breakage and get-aways. With steel coil chain and ring.

Shipping Weights

Size	2	3	4
Each	1 lb. 4 oz.	2 lbs.	2 lbs. 6 oz.
Dozen	15 lbs.	26 lbs.	28 lbs.

Article Number	Size	Jaw Spread	For Catching	Each	Per Doz.
584A8003	2	4¾ in.	Fox, Opossum, Raccoon, Fisher	54c	$5.38
584A8004	3	5½ in.	Fox, Coyote, Lynx, Beaver, Badger	82c	8.2[illegible]
584A8005	4	5⅞ in.	Otter, Wolf, Beaver	98c	9.9[illegible]



INCLUDE TRAPS ON YOUR TIME PAYMENT ORDER

See Inside Back Cover for Complete Details

"Oneida" Jump Underspring

26¢ Each SIZE 1 **$2.72** Dozen

• Lightweight! Compact! Easy to carry—easy to set and conceal in hard-to-get-at places. Lightning fast.

Extra strong tempered steel underspring—wide death-grip jaws. Parts can't clog or freeze. Large, balanced pan. Steel coil chains and rings. Sizes 1 and 1½ have drive pin.

Article Number	Size	Jaw Spread	For Catching	Each	Ship. Wt.	Per Doz.	Ship Wts.
584A8031	1	4⅝ in.	Muskrat, Mink, Skunk, Hawk	26c	10 oz.	$2.72	8 lbs.
584A8032	1½	5⅛ in.	Marten, Mink Skunk, Hawk	43c	12 oz.	4.27	10 lbs.
584A8034	2	5¾ in.	Fisher, Raccoon, Fox, Opossum	62c	1½ lbs.	6.15	14 lbs.
584A8035	3	7 in.	Coyote, Fox, Beaver, Otter	84c	2¼ lbs.	8.35	25 lbs.
584A8036	4	7½ in.	Wolf, Badger, Beaver, Otter	$1.00	2½ lbs.	10.00	30 lbs.

"Stop-Loss" Underspring

40¢ Each SIZE 1 **$4.14** Dozen

• Has "delayed action" feature—after regular trap jaws have closed, movement of animal releases extra "stop-loss" guard—prevents gnawing, pull-outs, etc.

"Oneida" Victor Size 1. "Stop-loss" guard forms a barrier (See small picture above)—makes it almost impossible for animal to reach its leg—can't gnaw off foot or leg. Seasoned trappers prefer "stop-loss" because *it increases catches—guards trapping profits.* Easy to conceal. Not affected by freezing weather. Extra strong tempered steel underspring—heavy, hardened steel jaws—4½-in. spread—lightning fast action. Balanced pan. Easy set, positive hold trigger. Primarily for muskrat—also catches skunk, mink, woodchuck, raccoon, marten and opossum. 15½-in. coil chain and drive pin. Include several on your credit order. Ship. wt. each 14 oz.; Per dozen 10 lbs.

584 A 8016—Each...40c; Per Dozen..$4.14

Victor Coil Spring Traps

59¢ Each 584 A 8020 **$6.00** Dozen

• New improved Square Jaws—larger diameter coil springs close jaws faster and tighter.

Tempered steel coil springs (2 of them) now faster than ever! Specially designed for fox trapping. Square jaws give greater holding power—fewer escapes. *Pan can now be adjusted to any desired tension by adjusting screw.* Working parts can't clog or freeze. Jaw spread 5½ in. 18 in. chain with ring.

584 A 8020—Size 2. Ship. wt. each 1 lb. 8 oz. per doz. 18 lbs. Each..59c; Per Dozen.....$6.00

Ⓑ **584 A 8019**—Size 1½. Similar to above but with round jaws and round pan. Primarily for Muskrat, Marten and Opossum. Ship. wt. each 1 lb. per doz. 12 lbs. 10 oz. Each.40c; Per Doz...$4.08

Ⓒ **584 A 8018**—Size 2. Oval shaped jaws with steel rings—jaws grip at 4 points—gives extra holding power. For Raccoon, Skunk and Mink. Ship. wt. each 1 lb. 9 oz.; per doz. 18 lbs.

Each.....66c Per Dozen.....$6.60



Ⓓ Ⓔ Ⓕ Ⓖ

Schultz Bait—From Animal Glands

Ⓓ Specially prepared for fox, wolf, coyote. Withstands low temperatures. Enough for 200 sets. With Trapping Book.

84 A 8120—Shipping weight 1 lb..... $1.00

Fur Fame Baits—From Animal Glands

Ⓔ 1-oz. bottle. Dropper. Wt. each 10 oz.

84 A 8168—Muskrat Bait. Each....39c

84 A 8169—Opossum, Skunk Scent. Ea..39c

84 A 8170—Fox Scent. Each.....39c

84 A 8171—Mink Scent. Each.....39c

84 A 8172—Raccoon Scent. Each.....39c

84 A 8173—Coyte,Wolf Scent. Ea.....39c

Famous Burbanks Animal Scents

Ⓕ In glass bottles carefully packed in wood container. Easy to use. Full instructions.

Art. No.	For Animals	No. Sets	Ship. Wt.	Each
84A8123	Muskrat	240	8 oz.	49c
84A8124	Skunk, 'Possum	240	8 oz.	49c
84A8125	Raccoon, Weasels	240	8 oz.	49c
84A8121	Fox Schofield formula	240	8 oz.	49c
84A8122	Mink	240	8 oz.	49c

Tanning Powder—With Instructions

Ⓖ For small skins, such as raccoon, mink, skunk, etc. Enough for 16 raccoon skins.

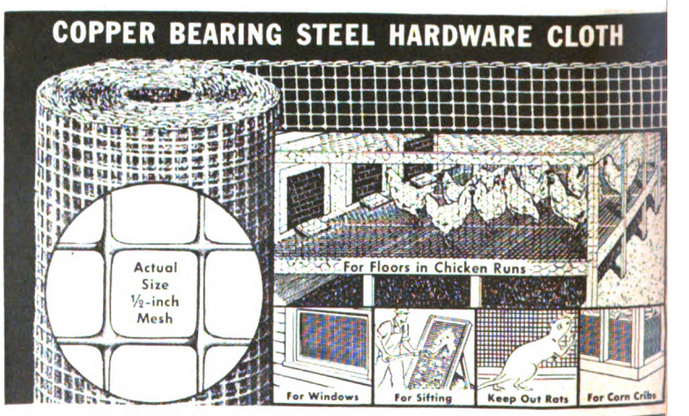
84 A 8131—1 lb. Ship. wt. 1 lb. 4 oz.....25c

Den Smokers

For smoking rabbits, raccoon, skunk, mink, etc., from holes and dens. Produces both smoke and gas. For outdoor use only. Wt. 1 lb. 4 oz.

84 A 8111—Pkg. of 18.....49c

COPPER BEARING STEEL HARDWARE CLOTH



Galvanized After Weaving —Seals all joints

Low As **3½¢** Sq. Ft. In 100-Ft. Rolls ½-in. Mesh

- Protects grain bins and corn cribs from rats, mice, etc.
- Protects cellar and garage windows and hot bed sash.
- Protects young trees, plants and newly seeded lawns.
- Shields machines, ventilators, big industrial fans, fly wheels.

Wards Hardware Cloth is made of Copper Bearing steel wire. Tests made by American Society for Testing Materials prove that Copper Bearing steel lasts twice as long as ordinary steel! Hot-dip galvanized in pure molten zinc *after* weaving, gives greater rust resistance and longer wear. Fills all crevices—binds intersections—leaves no place for dirt or bacteria to collect. Double selvage edge for strength and rigidity. Woven from first quality, full gauge, full weight wire. Include some in your Time Payment Order. *Sizes to 20 lbs. Available.* State size of mesh, width and length.

Size Mesh Inch	Gauge of Wire	Width Inches	Ship. Wt. 100 Ft. Pounds	684A5331 Running Foot	484A5332 25-Ft. Roll	184A5330 100 Ft. Roll
1/6	25	24	55	11½c	$2.75	$9.95
		30	60	14¼c	3.45	12.40
		36	66	17¼c	4.15	14.90
		48	133	23c	5.55	19.90
1/4	23	24	57	9½c	2.27	8.25
		30	71	12c	2.84	10.31
		36	85	14¼c	3.40	12.38
		48	114	19c	4.55	16.50
1/3	21	24	58	9¼c	2.18	7.95
		30	72	11½c	2.72	9.94
		36	86	14c	3.27	11.92
		48	129	18½c	4.36	15.90
1/2	19	12	32	4½c	1.08	4.00
		18	48	6½c	1.50	5.60
		24	64	8c	1.91	6.95
		30	79	10c	2.39	8.69
		36	95	12c	2.86	10.42
		48	127	16c	3.82	13.90
5/8	17	24	76	13¼c	3.16	11.50
		30	85	16½c	3.95	14.38
		36	102	20c	4.75	17.25
3/4	16	24	77	13¼c	3.16	11.50
		30	96	16½c	3.95	14.38
		36	115	20c	4.75	17.25
1	14	24	91	15c	3.56	12.95
		30	113	18¾c	4.45	16.19
		36	138	22½c	5.35	19.00
		48	183	30c	7.15	25.90

Adj. Fur Stretcher

Lightweight—low priced. For muskrat furs. Side arm locks automatically. Lgth. 21 in., width 8 in. Ship. wts.: six, 2 lbs. 4 oz.; twelve 4 lbs. 8 oz.

584 A 8105—6 for.....73c

12 for.....$1.35

Quick-Dry Fur Stretchers

Strong, adjustable steel spring stretches pelt to proper shape.

584 A 8101—Size 1. For muskrat, rabbit, etc. 8 by 20 in. Ship. wt. each 10 oz. Each....25c; 12 for....$2.46

584 A 8103—Size 2. For skunk, opossum, etc. 10 by 29¾ in. Ship. wt. each 1 lb. 2 oz. Each.....37c; 12 for...$3.68

WALTER A. CRAIG 912 COLES STREET WELLINGTON, MICH.

Copper Name Plates

M284 A 8144—For marking traps, furs, etc. Legal in all states except Washington. *Postpaid from Factory in Pa. —allow 5 days.* 1 name per unit below. **Print name, address.** 15 for 50c; 40 for $1.00



H J K L

Steel Mole Trap

Ⓗ Six steel prongs released by coil spring. Easily set by pulling up handle. Steel frame 16¾ by 4 in. Instructions. Ship wt. 3 lbs. 8 oz.

84 A 8132 Each.....89c

Wrought Steel Gopher Trap

Ⓙ Easy set—sure catch. With instructions. Ship. wt. 9 oz.

84 A 8143—Each.....22c

Elgin Mouse Trap

Ⓚ No need to touch rodent—drops out at touch of spring. Nickel plated steel. Length 3 in. Wt. three traps, 12 oz.

84 A 8175—3 traps for.....23c

Spring Mouse and Rat Traps

Ⓛ Strong steel spring—hardwood base. Split second action.

84 A 8153—Mouse Trap. Ship. wt. five traps, 7 oz. 5 for...9c

84 A 8154—Rat Trap. Ship. wt. two traps, 1 lb. 2 for.....15c

Square Cage Rat Trap

Enclosed bait cup keeps Trap baited at all times—animals can't reach it. Catch more than one at a time. Galvanized steel wire. Size 18 by 8 by 7¼ in.

84 A 8163—Ship. wt. 3 lbs. 2 oz. 69c

Square Cage Mouse Trap

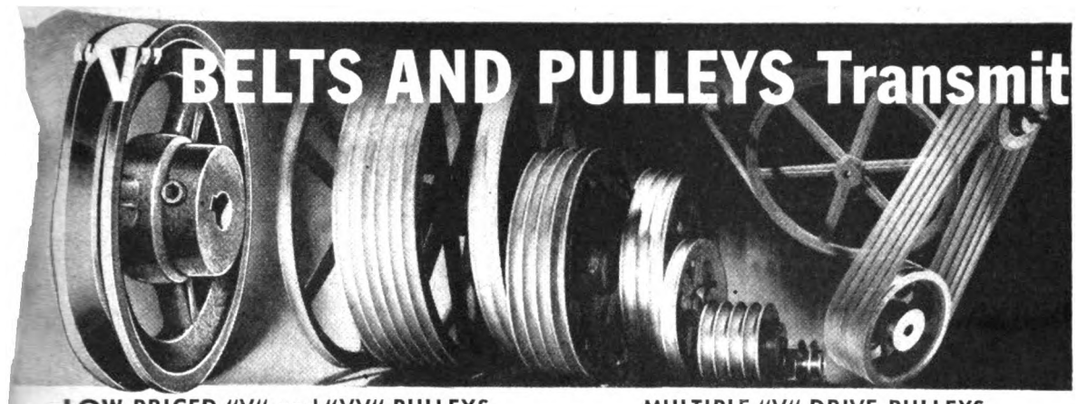
Same as above, but smaller. Size 8¼ by 5 by 4 inches.

84 A 8164—Ship. wt. 1 lb....45c

69c

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"V" BELTS AND PULLEYS Transmit



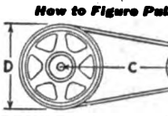
All the Power!

- **More efficient than flat pulleys and belts—Positive, Two-Sided Grip minimizes belt slippage!**
- **Faster Pick-up—Less Vibration—Quieter Operation!**
- **Require shorter center distances between shafts—that means less wasted space in factory or shop!**

Why waste power, fuel, and time with big, cumbersome flat pulleys and belts when Wards V-installations give you high-speed operation—greater efficiency! They save time—even if a belt breaks, remaining belts carry the load! They save fuel—positive belt grip reduces slippage, power loss, and engine wear.

IT'S EASY TO GET EXACT FIT!

How to Figure Pulley Diameter for Engine or Motor



1—Measure diameter of machine pulley (D). If machine does not have pulley choose a convenient size.
2—Multiply by speed (R.P.M.) machine pulley must turn.
3—Divide by speed (R.P.M.) of engine or motor.

RESULT is diameter of pulley required for engine or motor.

How to Figure Pulley Diam. for Machine to Be Driven

1—Measure diameter of engine pulley (E). If engine does not have a pulley choose a convenient size to use.
2—Multiply by speed (R.P.M.) of engine or motor.
3—Divide by speed (R.P.M.) machine pulley must turn.

RESULT is diameter of pulley required for machine.

How to Decide Number of Grooves and V-Belts Needed

The number of horsepower carried by one "B" Size V-Belt depends on (1) Speed of motor or engine used, and (2) Diameter of pulley on engine or motor. To find the number of pulley grooves and belts needed:

1—Determine greatest H.P. to be carried by engine or motor.
2—Find in table at right diam. of pulley chosen for engine or motor.
3—Opposite this pulley diam., in column showing speed nearest speed of engine or motor find the H.P. carried by *one* V-belt.
4—Divide *total* H.P. to be carried, by the H.P. *one* belt will carry.

H.P. CARRIED PER BELT

Diam. Engine Pulley	R.P.M. of Engine or Motor			
	2100	1750	1425	1140
3¾-in.	2	1 7/10	1 4/10	1 2/10
4-in.	2 1/10	1 8/10	1 5/10	1 3/10
4½-in.	2 4/10	2 1/10	1 6/10	1 4/10
4½-in.	2 6/10	2 2/10	1 7/10	1 4/10
4¾-in.	2 7/10	2 3/10	1 8/10	1 5/10
5-in.	2 8/10	2 4/10	1 9/10	1 5/10
5⅛-in.	2 9/10	2 5/10	2	1 7/10
5½-in.	2 9/10	2 6/10	2 2/10	1 7/10
5¾-in.	3	2 7/10	2 3/10	1 8/10
6-in.	3 2/10	2 8/10	2 4/10	1 8/10

RESULT is number of belts and V-grooves to use. If result is a fraction (such as 3 7/10) use next larger whole figure (such as 4). When possible, use motor pulley sizes shown in dark type (5-in. diam. or larger)—the larger the pulley the longer the belt life!

If in doubt about your installation write for Wards V-Drive Information Blank—Wards Engineering Service will help you.

LOW-PRICED "V" and "VV" PULLEYS



Low As **55c**

Now! Wards offer you low prices in Double "V" as well as Single "V" cast semi-steel pulleys. Far superior to lower-priced pressed steel or die cast pulleys, because they're stronger, can't warp or bend, and are precision balanced by experts to eliminate vibration—assure truer running—lessen power loss. Carefully-machined grooves reduce wear on belt, prevent belt slippage. Baked gray crackle finish. With safety set screw and standard keyway. Get exact size by following "How to Order" instructions (right). **Be sure to state Article Number, Diameter, and Bore Wanted.** (Measure shaft diam.). *Maiable.* Single Groove Pulleys from 1⅜ to 3½-in. diam. **Shipped from** Stock—all others from Factories near Cincinnati, Minneapolis, New York, Kansas City, or Denver in about 6 additional days. We can supply only bore sizes below.

SINGLE GROOVE PULLEYS

For ¼ to ¾ H.P. Use 1 "A" Belt M287 A 5209				For 1 to 2 H.P. Use 1 "B" Belt M287 A 5211				Bores Available State Bore
Outside Diameter	Price	Ship. Wt. Lbs.	Ship. Wt. Oz.	Outside Diameter	Price	Ship. Wt. Lbs.	Ship. Wt. Oz.	
1¾-in.	55c		5					
2 -in.	62c		7					
2¼-in.	69c		10					
2½-in.	76c		12	2½-in.	85c		13	½, ⅝ or ¾-in.
2¾-in.	83c		13	2¾-in.	93c		15	
3 -in.	90c		8	3 -in.	$1.05		12	
3¼-in.	97c		10	3¼-in.	1.13		13	
3½-in.	$1.04		12	3½-in.	1.25	1	2	
3¾-in.	1.10	1	3	3¾-in.	1.32	1	5	½, ⅝, ¾ or ⅞
4 -in.	1.15	1	5	4 -in.	1.36	1	8	
4¼-in.	1.19	1	7	4¼-in.	1.45	1	13	
4½-in.	1.24	1	10	4½-in.	1.49	1	15	1-in.
5 -in.	1.32	2	2	5 -in.	1.55	2	5	½, ⅝, ¾, ⅞, 1, 1⅛ or 1¼
5½-in.	1.39	2	5	5½-in.	1.63	2	10	
6 -in.	1.49	2	7	6 -in.	1.75	2	15	
6¾-in.	1.55	2	10	6½-in.	2.00	3	2	1⅜, 1½ or 1-in.
7¼-in.	1.98	3		7¾-in.	2.49	3	13	½, ⅝, ¾, ⅞, 1, 1⅛, 1¼
8¼-in.	2.49	3	8	8¾-in.	2.72	4	3	
9¼ in.	2.75	4	5	9¾-in.	3.05	4	13	
10¼-in.	3.05	4	15	10¾-in.	3.32	5	5	1⅜, 1½ or 1¾-in.
11¼-in.	3.39	5	7	11¾-in.	3.75	5	13	
12¼-in.	3.78	6		12¾-in.	4.20	6	3	
14¼-in.	4.69	7	8	13¾-in.	4.60	7	5	1⅝, or 1¾-in.
15¼-in.	5.10	8	3	15¾-in.	5.45	9		
18¼-in.	5.98	11		18¾-in.	6.45	11	12	

2-GROOVE PULLEYS For 2½ to 4 H.P. Use 2 "B" Belts M287 A 5208				Bores Available State Bore
Outside Diameter	Price	Ship. Wt. Lbs.	Ship. Wt. Oz.	
3 -in.	$2.75	2	8	⅝, ¾, 1, or 1⅛
3¼-in.	2.89	2	12	
3½-in.	3.14	3	2	
3¾-in.	3.24	3	12	
4 -in.	3.29	3	8	
4¼-in.	3.38	3	9	
4½-in.	3.41	3	14	
4¾-in.	3.46	4	12	
5 -in.	3.55	5	4	¾, 1, 1⅛, or 1¼
5½-in.	3.73	4	6	
6 -in.	3.82	4	8	
6½-in.	4.48	6		
6¾-in.	4.62	7		¾, 1, 1⅛, 1¼, 1⅜, 1½ or 1¾-in.
7¾-in.	5.06	8		
8¾-in.	5.59	9	2	
9¾-in.	5.95	10	5	
10¾-in.	6.49	11	9	
11¾-in.	6.95	13		

MULTIPLE "V" DRIVE PULLEYS



Low As **$3.60** 3¾-in.

Licensed under Allis-Chalmers-Geist Patent No. 1662511. High quality cast semi-steel—accurately balanced. True running, minimizes belt slippage—no vibration. Machined grooves grip belt sides firmly—reduce belt wear to minimum. For best results use with Licensed "B" belts, below. Baked-on crackled enamel finish. With safety set screw, standard keyways, interchangeable semi-steel bushings.

Bores Available—(graduated by 1/16-in.) Diams. up to and including 7¼-in. available with ½ to 1⅝-in. bores only. Diams. of 7¾-in. and larger available with ¾ to 2⅜-in. bores only. **State Article Number, Diameter, and Bore Wanted.** *Maiable.* **Shipped from Factories** near Chicago, New York, Minneapolis, Cincinnati, Kansas City, or Denver in about 6 additional days.

Nominal Outside Diameter	2-GROOVE 2½ to 4 H.P. M287 A 5212 Price	Ship. Wt.	3-GROOVE 4½ to 7 H.P. M287 A 5213 Price	Ship. Wt.	4-GROOVE 7½ to 9 H.P. M287 A 5214 Price	Ship. Wt.	5-GROOVE 9½ to 11 H.P. M287 A 5215 Price	Ship. Wt.	6-GROOVE 11½ to 14 H.P. M287 A 5216 Price	Ship. Wt.
3⅜	$3.60	4 lbs.	$4.29	5 lbs.	$5.08	6 lbs.	$6.01	7 lbs.	$6.95	8 lbs.
4	3.65	4 lbs.	4.34	6 lbs.	5.18	7 lbs.	6.11	9 lbs.	7.05	9 lbs.
4	3.70	4 lbs.	4.39	6 lbs.	5.28	7 lbs.	6.21	9 lbs.	7.15	10 lbs.
4½	3.80	4 lbs.	4.54	7 lbs.	5.52	8 lbs.	6.41	10 lbs.	7.40	11 lbs.
4¾	3.85	5 lbs.	4.63	7 lbs.	5.67	9 lbs.	6.56	10 lbs.	7.54	12 lbs.
5	3.94	5 lbs.	4.73	7 lbs.	5.82	10 lbs.	6.70	11 lbs.	7.69	13 lbs.
5	4.04	5 lbs.	4.83	7 lbs.	5.97	10 lbs.	6.85	12 lbs.	7.89	13 lbs.
5½	4.24	5 lbs.	5.08	7 lbs.	6.36	10 lbs.	7.15	12 lbs.	8.33	14 lbs.
5⅝	4.39	6 lbs.	5.23	8 lbs.	6.61	11 lbs.	7.35	13 lbs.	8.63	15 lbs.
6	4.54	6 lbs.	5.37	8 lbs.	6.85	11 lbs.	7.54	14 lbs.	8.87	16 lbs.
6¼	4.68	6 lbs.	5.57	9 lbs.	7.10	12 lbs.	7.79	15 lbs.	9.12	17 lbs.
6½	4.98	6 lbs.	5.92	9 lbs.	7.59	13 lbs.	8.23	15 lbs.	9.61	18 lbs.
6¾	5.13	7 lbs.	6.11	10 lbs.	7.84	14 lbs.	8.48	16 lbs.	9.91	19 lbs.
7	5.28	7 lbs.	6.26	10 lbs.	8.09	14 lbs.	8.68	16 lbs.	10.16	19 lbs.
7¼	5.42	8 lbs.	6.46	11 lbs.	8.33	15 lbs.	8.92	17 lbs.	10.40	20 lbs.
7¾	5.62	9 lbs.	7.00	12 lbs.	8.97	15 lbs.	11.93	18 lbs.	16.12	21 lbs.
9	6.21	10 lbs.	7.94	13 lbs.	9.86	17 lbs.	12.87	21 lbs.	17.26	24 lbs.
9¾	6.61	11 lbs.	8.38	15 lbs.	10.45	10 lbs.	13.46	23 lbs.	17.95	27 lbs.
11½	7.40	13 lbs.	9.76	18 lbs.	11.68	23 lbs.	14.69	28 lbs.	19.42	32 lbs.
12¾	8.23	15 lbs.	10.50	20 lbs.	12.82	27 lbs.	15.68	32 lbs.	20.31	37 lbs.
15¾	9.86	20 lbs.	12.82	26 lbs.	15.38	35 lbs.	18.24	42 lbs.	22.09	49 lbs.
18¾	11.73	26 lbs.	15.38	32 lbs.	18.24	44 lbs.	20.90	54 lbs.	25.04	62 lbs.

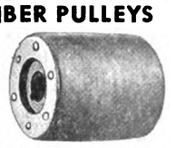
Keyways: Bores of ½ and 9/16-in. have 1/8 x 1/16-in. keyways; ⅝ to ⅞-in. have 3/16 x 3/32-in.; 15/16 to 1 9/16 have ¼ by ⅛-in.; 1⅝ to 1 13/16 have ⅜ by 3/16; 1⅞ to 2⅜-in. have ½ by ¼-in. keyways.

V-Drives for Big Jobs to 500 H.P.

Wards can supply V-belts and Pulleys for *a y* job, even the biggest ones! *Write us for advice* on the proper selection for your installation. **Please state the following:**

1—H.P. and R.P.M. of motor or engine to be used.
2—Type, make, and speed of machine to be driven.
3—Distance between centers of shafts.

FAMOUS BROWNING FIBER PULLEYS



Low As **$1.25**

Famous for their gripping power! Actual tests show them to be up to 60% more efficient than steel or cast iron flat pulleys—and Wards save you up to 50% under list prices! Steel hubs and rims—special wear-resistant fiber composition face. 8-in. diam. and larger are specially treated for weather resistance. With set screw, standard keyway. (See above, left for size of keyway.) **Shipped from** stock in Factory near Cincinnati, Ohio in about 6 days. Order pulley at least ½-in. wider than belt. *Bores graduated by 1/16-in. Sold only in bores listed. *Maiable.*

M287 A 5046—State Diameter, Face Width, and Bore.

Size, In. Diam.	Face	Bores* Inches	Wt. Lbs.	Price
1½	2½	½ to ¾	1	$1.25
2	2½	½ to ⅞	1	1.45
2	3½	½ to ⅞	1	1.79
2½	2½	½ to 1⅛	2	1.69
2½	3½	½ to 1⅛	2	2.05
2½	4½	⅝ to 1⅜	3	2.39
3	2½	½ to 1¼	2	1.95
3	3½	½ to 1⅜	2	2.29
3	4½	⅝ to 1⅜	3	2.65
3½	2½	½ to 1⅜	2	2.25
3½	3½	½ to 1⅜	3	2.59
3½	4½	⅝ to 1⅜	3	2.89
4	2½	½ to 1½	2	2.49
4	3½	½ to 1½	3	2.79
4	4½	¾ to 1¾	4	3.19
4	7	1 to 2	7	$4.19
4½	7	1 to 2	7	4.39
5	4½	¾ to 1¾	6	3.69
5	5½	⅞ to 1⅞	7	4.10
5	7	1 to 2	9	4.75
6	4½	¾ to 1⅞	8	4.29
6	7	1 to 2⅛	12	5.25
6	7	1 to 2⅛	12	5.29
7	5½	1 to 2⅛	12	5.29
7	7	1⅛ to 2¼	14	5.89
8	7	1⅜ to 2½	18	7.35
8	9	1⅜ to 2½	21	8.45
9	7	1⅜ to 2½	22	8.10
9	9	1⅜ to 2½	25	9.25
10	8	1⅜ to 2½	28	9.59
12	9	1⅜ to 2½	46	12.25

WARDS HEAVY DUTY "V" BELTS—for Farm, Factory or Home

3 Easy Ways to Order V-Belts

METHOD 1—For Replacement. Measure length around old belt to determine price in table below. Then simply state **Art. No. below and Manufacturer's Number stamped on your old belt.** We will furnish a belt of same size.



METHOD 2

1—Add diam. of machine pulley (D) to diam. of engine pulley (E).
2—Multiply this sum by 1.57.
3—Add to this sum, twice the distance (C) from center to center of pulleys. Result is the outside circumference of V-belt needed.

Exact fit Guaranteed if you follow any of these 3 methods.

METHOD 3

Use steel tape—measure around 1 pulley—over to and around the other—and back to start. Measure around *outside—not* in grooves.



"A" SIZE BELTS—CORD CORE ½ by 11/32-in.



"A" Size Low As **49c**

Extra-flexible! The high quality construction of these Heavy Duty Belts (see picture above) means longer life, more efficient service. 6-strand, gum-rubber sealed, long staple cotton cords are more tightly twisted—won't stretch like those in ordinary belts. Fewer pulley adjustments when you use Ward belts! Use them to replace all ½-in. belt sizes listed—OR with M287 A 5209 pulleys above. 2-ply wrapping on top and bottom—1-ply on sides. **State Art. No. and outside circum.** If for replacement state make and No. of old belt also. Wts.—17 to 28-in. size, 4 oz.; 29 to 49-in. 6 oz.; 50 to 67-in., 8 oz.; 68 to 100-in., 1 lb.

87 A 5038—Shipped from Stock in nearest Mail Order House.

Outside Circum.	Ea.	Outside Circum.	Ea.	Outside Circum.	Each	Outside Circum.	Each
17-in.	49c	38-in.	67c	59-in.	99c	80-in.	$1.31
18-in.	49c	39-in.	69c	60-in.	$1.00	81-in.	1.32
19-in.	49c	40-in.	70c	61-in.	1.02	82-in.	1.33
20-in.	49c	41-in.	72c	62-in.	1.03	83-in.	1.34
21-in.	49c	42-in.	74c	63-in.	1.05	84-in.	1.35
22-in.	49c	43-in.	76c	64-in.	1.06	85-in.	1.36
23-in.	49c	44-in.	78c	65-in.	1.08	86-in.	1.37
24-in.	49c	45-in.	79c	66-in.	1.09	87-in.	1.38
25-in.	49c	46-in.	80c	67-in.	1.11	88-in.	1.39
26-in.	51c	47-in.	81c	68-in.	1.12	89-in.	1.40
27-in.	52c	48-in.	83c	69-in.	1.14	90-in.	1.41
28-in.	53c	49-in.	84c	70-in.	1.15	91-in.	1.42
29-in.	54c	50-in.	86c	71-in.	1.17	92-in.	1.43
30-in.	56c	51-in.	87c	72-in.	1.18	93-in.	1.44
31-in.	57c	52-in.	89c	73-in.	1.19	94-in.	1.45
32-in.	59c	53-in.	90c	74-in.	1.21	95-in.	1.46
33-in.	60c	54-in.	92c	75-in.	1.22	96-in.	1.49
34-in.	61c	55-in.	93c	76-in.	1.24	97-in.	1.51
35-in.	63c	56-in.	95c	77-in.	1.26	98-in.	1.52
36-in.	64c	57-in.	96c	78-in.	1.28	99-in.	1.54
37-in.	66c	58-in.	98c	79-in.	1.30	100-in.	1.56

"B" SIZE BELTS—UNLICENSED 21/32 by 7/16-in.



"B" Size Low As **59c**

Heavy duty construction, with all the extra-quality features that insure maximum service plus quiet, vibrationless operation. Use them to replace all 21/32-in. belt sizes listed OR use with Pulleys listed above. Not licensed for multiple drives. Tightly twisted, 6-strand cotton cords are *sealed in rubber*—no internal friction. Rubber-impregnated 3-ply duck wrapping is positively sealed to belt—protects interior from moisture--extra-flexible. **State Art. No. and outside circum.** If for replacement state make and No. of old belt also.

87 A 5042—Shipped from Stock in nearest Mail Order House. Wts.—25 to 34-in. size, 6 oz.; 35 to 44-in., 8 oz.; 45 to 72-in., 1 lb.; 73 to 100-in., 2 lbs.

Outside Circum.	Ea.	Outside Circum.	Each	Outside Circum.	Each	Outside Circum.	Each
25-in.	59c	45-in.	$1.03	65-in.	$1.34	85-in.	$1.69
26-in.	61c	46-in.	1.06	66-in.	1.36	86-in.	1.71
27-in.	63c	47-in.	1.08	67-in.	1.37	87-in.	1.73
28-in.	65c	48-in.	1.10	68-in.	1.38	88-in.	1.75
29-in.	67c	49-in.	1.12	69-in.	1.40	89-in.	1.77
30-in.	69c	50-in.	1.14	70-in.	1.41	90-in.	1.79
31-in.	71c	51-in.	1.16	71-in.	1.42	91-in.	1.81
32-in.	72c	52-in.	1.17	72-in.	1.44	92-in.	1.82
33-in.	74c	53-in.	1.19	73-in.	1.45	93-in.	1.83
34-in.	76c	54-in.	1.21	74-in.	1.48	94-in.	1.86
35-in.	78c	55-in.	1.22	75-in.	1.50	95-in.	1.89
36-in.	80c	56-in.	1.23	76-in.	1.52	96-in.	1.91
37-in.	80c	57-in.	1.24	77-in.	1.53	97-in.	1.93
38-in.	85c	58-in.	1.25	78-in.	1.54	98-in.	1.95
39-in.	88c	59-in.	1.26	79-in.	1.57	99-in.	1.97
40-in.	91c	60-in.	1.27	80-in.	1.59	100-in.	1.99
41-in.	93c	61-in.	1.28	81-in.	1.61		
42-in.	96c	62-in.	1.29	82-in.	1.63		
43-in.	99c	63-in.	1.30	83-in.	1.65		
44-in.	$1.01	64-in.	1.32	84-in.	1.67		

"B" SIZE BELTS—LICENSED 21/32 by 7/16-in.



"B" Size Low As **91c**

Licensed under Allis-Chalmers-Geist Patent No. 1662511, for use with multiple drives. Wards Licensed "B" size belts, made by experts, have all the rugged, extra quality construction features of the "A" and unlicensed "B" size belts at left PLUS exact-specification manufacture and perfect matching. When you order two or more of these Licensed "B" size belts at Wards, they are carefully checked on precision gauges by factory experts to see that they match perfectly. Perfect matching means more even performance—longer wear. Insure even power transmission at all times with Wards Licensed "B" Belts—they're guaranteed uniform quality—uniform size.

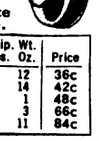
State Art. No. and Outside Circumference. If for replacement be sure to state make and number of old belt also.

M287 A 5041—Shipping points below table.

Outside Circum.	Ship. Wt. Lbs.	Ship. Wt. Oz.	Price
38-in.	..	8	91c
41-in.	..	8	$1.00
45-in.	..	10	1.09
49-in.	..	10	1.19
54-in.	..	12	1.28
58-in.	..	12	1.32
63-in.	..	14	1.37
68-in.	1	.	1.48
71-in.	1	2	1.51
78-in.	1	2	1.64
84-in.	1	2	1.78
88-in.	1	3	1.87
93-in.	1	3	1.96
96-in.	1	3	$2.05
100-in.	1	4	2.14
103-in.	1	4	2.19
106-in.	1	4	2.24
108-in.	1	4	2.28
115-in.	1	6	2.46
123-in.	1	8	2.60
131-in.	1	12	2.78
147-in.	1	12	3.15
161-in.	1	14	3.42
176-in.	2		3.74
183-in.	2	2	3.92
198-in.	2	4	4.24

V-Belt Shipping Points—"B" Size Belts mailed from Factories near Chicago, Minneapolis, Kansas City, Denver, Cincinnati, or New York in about 6 additional days.

LOW-PRICED PULLEYS



32c Up

Close-grained White Brass, with tensile strength of 50,000 pounds per square inch. All have both set screw and standard keyways (except 87 A 5052, size 2 by ⅝ inches which has set screw only). Use Single "V" pulleys with "A" or "B" belts. **Sold only in sizes and bores listed.**

Crown Face Pulleys

87A5052—State Diameter, Face, and Bore wanted.

Diam.	Face	Bores, In.	Ship. Wt. Lbs.	Ship. Wt. Oz.	Price
2	2	⅝	9		32c
2½	2½	⅝	14		45c
3	2½	1	3		63c
3½	3½	1, 1⅛	1	14	89c
4	3	1, 1⅛	2	1	98c

Single "V"

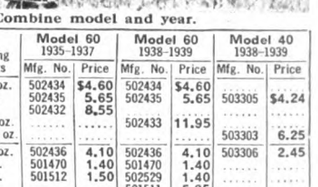
87 A 5051—State Diam. and Bore.

Outside Diam.	Bores, In.	Ship. Wt. Lbs.	Ship. Wt. Oz.	Price
3	⅝, 1	12		36c
3½	1	14		42c
4	1	1	1	48c
5	1	1	3	66c
6	1	1	11	84c

REPLACEMENT BELTS

For Allis-Chalmers 1935-1939 Combines

Perfect fit replacements. See left for description. Mailed from Cincinnati, Ohio in about 6 days.



M287 A 5059—State Art. No. Mfg's No. description of drive, Combine model and year.

Description of Drive	Shipping weights	Model 60 1935-1937 Mfg. No.	Price	Model 60 1938-1939 Mfg. No.	Price	Model 40 1938-1939 Mfg. No.	Price
Header	1 lb. 9 oz.	502434	$4.60	502434	$4.60		
Separator	2 lbs.	502435	5.65	502435	5.65	503305	$4.24
Cylinder	1 lb.	502432	8.55				
Cylinder	5 lbs. 6 oz.			502433	11.95		
Cylinder	2 lbs. 12 oz.					503303	6.25
Reel	1 lb. 6 oz.	502436	4.10	502436	4.10	503306	2.45
Lower Draper	10 oz.	501470	1.40	501470	1.40		
Corn Draper	10 oz.	501512	1.50	502529	1.40		
Corn Header	2 lbs.			501511	5.35		
Bin Unloader	10 oz.			502437	1.50		
Straw Spreader	14 oz.			502438	2.05	502438	2.05
Pickup	1 lb. 12 oz.			501510	3.85	501510	3.85
Pickup	1 lb. 6 oz.					503337	3.05
Header and Fan	1 lb.					503304	2.50
Upper Draper	14 oz.					503308	90c
Pickup (Draper)	1 lb. 4 oz.					502439	3.45
Draper	10 oz.					502529	1.40
Tailings El. '38	8 oz.					503307	1.25
Tailings El. '39	7 oz.					504093	1.10

Write for Prices of Belts for other Combines.

GET PEAK PERFORMANCE!

Don't put off getting efficient, economical performance made possible by V-drive installation. Use your Credit, and pay in small, convenient amounts for your pulleys and belts as you use them.

See Inside Back Cover for Details of Wards Time Payment Plan.

TACHOMETER (SPEED INDICATOR)



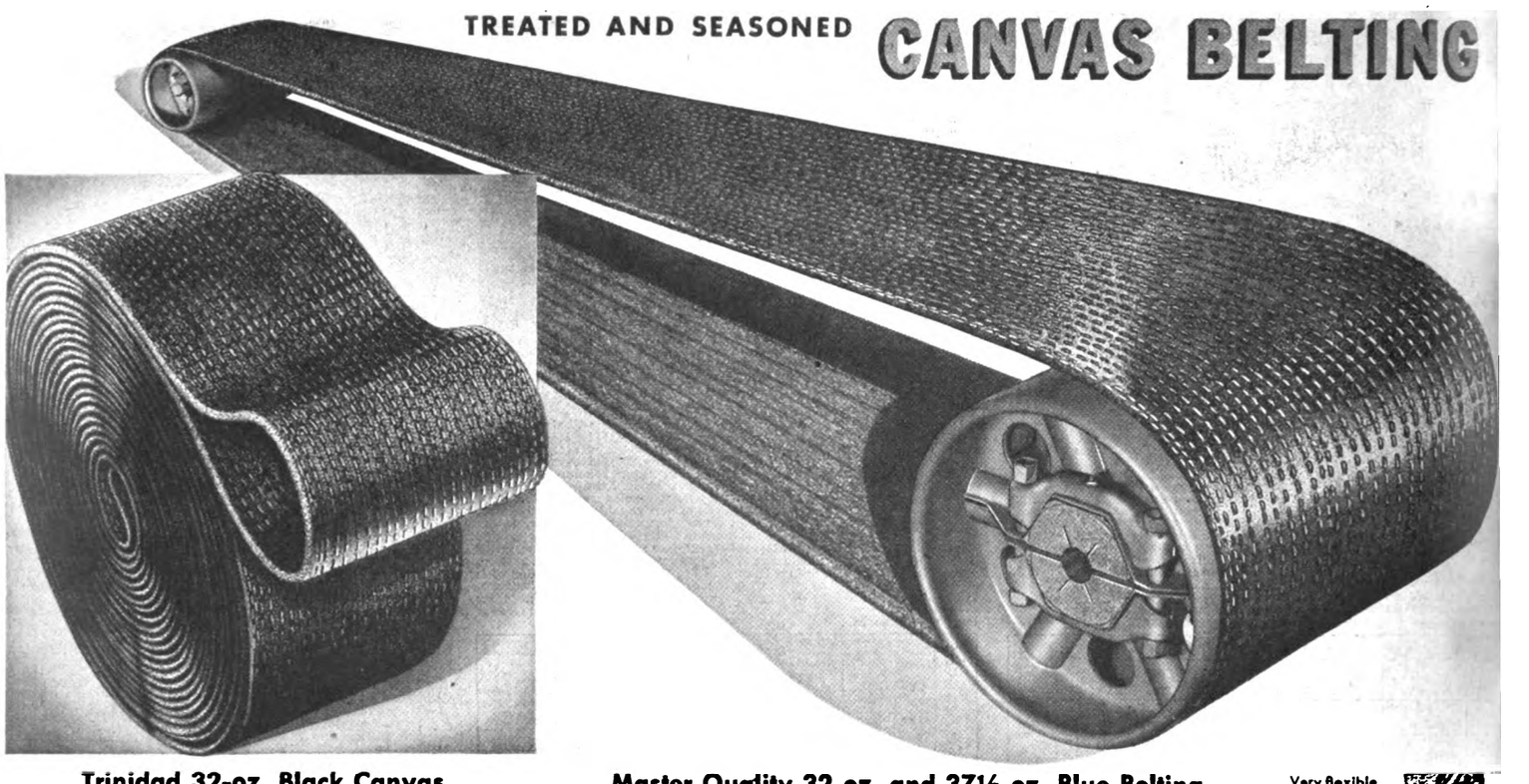
$2.89

Tells R.P.M. of any pulley or shaft instantly. *Know* that your machines are running at most efficient speeds—*Don't Guess!* Touch tip to shaft—read dial like speedometer. Registers 200 to 3500 R.P.M. Rust proof metal case—non-breakable crystal. With 2 tips (1 pointed, 1 flat). Ship. wt. 14 oz.

87 A 5007—For shafts turning clockwise.....$2.89
87 A 5008—For shafts turning counter-clockwise.. 2.89

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TREATED AND SEASONED CANVAS BELTING



Trinidad 32-oz. Black Canvas Treated and Seasoned for Long Wear

- **Thoroughly saturated with a special patented weatherproofing compound for extra long service.**
- **Heatproof and waterproof—resists damaging acids.**
- **Made from U.S. Standard 32-oz. long fiber American cotton duck—very tough, durable, stays flexible.**

By the Foot **10c** 2 in. 4-ply

Endless **$5.90** 4-ply 4 in. by 30 ft.

Quality that usually sells for much higher prices elsewhere—excelled only by Master Quality Blue Canvas belting at right. U. S. Standard Cotton duck thoroughly tested for tensile strength. Pre-twisted, pre-stretched, reinforced with evenly spaced lock stitching for tearing and extra strength. Double stitched at sides to prevent side-wearing, fraying, ply separation—assures longer belt life.

Entire belt weather proofed—submerged in special, patented compound for 24 hours—every fiber impregnated—tested for thorough saturation before being taken out. This special treatment makes belt more flexible—makes it *stay* flexible in any weather—makes it grip pulley more firmly—adds years of dependable service to the belt.

Wards Black Canvas Belting will stand hard use on tractors, threshers, pump jacks, grinders, separators, etc. *But not recommended for use on hammer mills.* For hammer mills and other high speed, small pulley machinery, use Wards Master Quality Blue Canvas Belting or Wards Straight-cut Raw Edge Rubber Belting described and listed at right.

You can buy $14.00 worth of belting for just $2.00 down and $2 a month on Time Payments—See Inside Back Cover for complete details.

Roll Belting sold in 3 or 4-ply—endless belts in 4-ply only. Stick of belt dressing included with endless belts. Roll belting laced without charge with Steelgrip or Wiregrip lacing, if requested. In line with general practice, endless belts are about 3 feet shorter, due to splice, than sizes shown. Read "How to Order" on opposite page before ordering. *Sizes up to 70 pounds Maiable.* **Remember to state width and length wanted.**

Belting By The Foot

Width In	684 A 7697 3-Ply—About 3/32 in. Thick Ship. Wt. Ounces	Per Ft.	684 A 7698 4-Ply—About 1/16 in. Thick Ship. Wt. Lb. Oz.	Per Ft.
1½	2	6c	3	8c
2	2	8c	3	10c
2½	4	10c	4	12c
3	4	13c	6	14c
4	5	16c	6	18½c
5	6	26c	7	22c
6	.....	.....	9	27c
7	.....	.....	10	31c
8	.....	.....	12	36c
10	.....	.....	15	43c

Black Canvas Endless Belts

184 A 7701—4-Ply

Width In.	Lgth Feet	Wt. Lbs.	Each
4	20	8	$3.98
4	30	12	5.90
4	40	15	7.70
5	20	10	4.98
.....	.....	.....	.....
5	30	14	7.25
5	40	18	9.45
5	50	23	11.65
6	30	18	8.90
6	40	23	11.60
6	50	30	14.30
6	60	36	16.95
7	40	44	20.95
7	50	55	25.95
7	60	66	30.95
7	75	82	38.95
8	75	92	43.95
8	100	120	56.95
8	125	150	71.95
8	150	180	85.95

Master Quality 32-oz. and 37½-oz. Blue Belting Only Canvas Belt That's Seasoned for 10 Full Days!

- **Carefully treated with 4 vital processes to give it extra long life, exceptional durability and permanent flexibility under all conditions of use.**
- **Heatproof, coldproof, moistureproof, oilproof—resists action of acids.**
- **U.S. Standard 32-oz. and 37½-oz. long fiber American cotton duck.**

By the Foot **13c** 2-in. 4-ply

Endless **$7.50** 4-ply 4 in. by 30 ft.

No other Canvas Belting gets this special processing. Ten full days of seasoning makes it the best Canvas Belting you can buy—regardless of price!

First—Thorough saturation with a non-oxidizing, permanently flexible compound—reaches every fiber of the belt. This first step of seasoning takes 3 days.

Second—Belt is hermetically sealed—weatherproofed. Second step takes 2 days.

Third—First outer protective coat—makes belt oilproof, waterproof, dry rot and acid resisting—seals flexibility permanently in. This step takes 2 more days.

Fourth—Second outer protective coat; gives double protection—increases gripping power—permits belt to work efficiently over small pulleys. Takes 3 days, making 10 full days in all.

Heavy U. S. Standard cotton duck—pre-stretched—gives 10% greater tensile strength—eliminates all but 2% of stretch! Folded to 4-ply or 5-ply and reinforced with lock-stitching for extra strength. Double-stitched at edges for longer life—prevents side wear and fraying.

Needs no breaking in. Always flexible—won't get brittle in winter or sticky in summer. Clings to pulley with a non-slip grip—delivers maximum power at all speeds in any weather. With ordinary care this belting will give years of wear—cost little per year of service.

Roll belting laced without charge with Wiregrip or Steelgrip lacing, if requested. In line with general practice, Endless Belts are about 3 feet shorter than sizes shown, due to splice. Read "How to Order" on opposite page. *Sizes up to 70 lbs. are Maiable.* **State length and size wanted.**

32-oz. 4-Ply Blue Endless Belts. Best for most uses. Clings to 3-in. pulleys on hammer mills and other small pulley machines. Excellent for harvesters, tractors, threshers, pump jacks, etc.

37½-oz. 4-Ply Blue Endless Belts. For extra tough jobs. Strongest canvas belt made—does work of any 32-oz. 5 or 6-ply belt. Not recommended for hammer mills or pulleys smaller than 6 inches.

Very flexible. Bend a piece—and bend some ordinary belting. Then let go...



...see how quickly Wards straightens out; other belt stays bent longer.



Efficient for high speeds or heavy duty—for small or large pulley. Grips tightly.



2 outer coats of tractive material assure efficient grip. Minimum pulley slip.



32 oz. Blue Belting by Foot

Width In.	684 A 7704 4-ply 3/32-in. thick Ship. wt. Lbs. Oz.	Per Ft.	684 A 7703 5-ply 1/4-in. thick Ship. wt. Lbs. Oz.	Per Ft.
2	3	13c	.....	.....
2½	4	16c	.....	.....
3	5	19c	.....	.....
4	6	23c	.....	.....
5	7	29c	9	36c
6	9	35c	11	43c
7	11	41c	.....	.....
8	12	47c	1	55c
10	15	59c	1 2	70c
12	.....	.....	1 8	85c

Wards Master Quality 4-Ply Blue Canvas Endless Belts

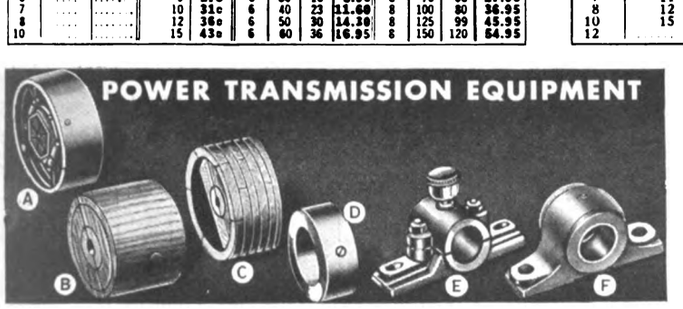
In line with general practice, Endless Belts below are about 3 feet shorter than size shown.

184 A 7705—32-oz. 4-Ply Blue Endless Belts.

Width In.	Length Ft.	Ship. Wt. Lbs.	Each
4	20	8	$4.98
4	30	12	7.50
5	20	10	6.65
5	30	14	9.50
5	40	18	12.45
6	30	18	11.45
6	40	23	14.95
6	50	30	18.45
6	60	36	21.95
6	75	44	26.95
7	30	21	16.45
7	40	28	20.95
7	50	35	25.75
7	60	41	30.95
7	75	52	38.95
8	40	32	25.95
8	50	40	32.95
8	60	48	38.95
8	75	58	46.95
8	100	80	62.95
10	40	40	32.95
10	50	50	40.95
10	60	60	48.95
10	75	75	60.95
10	100	100	80.95
12	40	48	38.95
12	50	60	48.95
12	60	72	58.95
12	75	90	72.95
12	100	120	96.95

184 A 7721—37½ oz. 4-Ply Blue Endless Belts.

Width	Length	Ship wt	Each
6 in.	30 ft.	19 lbs.	$12.95
6 in.	40 ft.	25 lbs.	15.95
6 in.	50 ft.	32 lbs.	20.95
6 in.	60 ft.	37 lbs.	24.95
6 in.	75 ft.	50 lbs.	30.95
6 in.	100 ft.	63 lbs.	39.95
7 in.	50 ft.	37 lbs.	23.95
7 in.	60 ft.	45 lbs.	27.95
7 in.	75 ft.	56 lbs.	35.95
7 in.	100 ft.	80 lbs.	46.95



Wood or Steel Split Pulleys

Wood **$2.15** 3x3-in. Steel **$2.75** 4x3-in.

Crown faced. Split to attach without dismantling shaft. **State article number, diam., width face and size shaft hole.**

Ⓐ **"Barry" Steel Split Pulleys.** Electrically spot welded. Cast iron compression-type bushings—needs no keys.

ⒷⒸ **Hardwood Split Pulleys.** Perfectly balanced. Kiln dried. Wood bushing. 10-in. diam. and smaller are solid block type (See B above). 12-in. diam. has single arm spoke (see C above).

Size Diam In	Face In	Steel Pulley 684 A 7635 Ship wt Lbs	Each	Wood Pulley 684 A 7630 Ship wt Lbs.	Each
3	3	...	.....	1	$2.15
3	4	...	.....	1	2.25
4	3	2	$2.75	2	2.36
4	4	...	.....	2	2.65
4	6	...	.....	2	2.85
6	4	7	3.79	3	2.30
6	6	8	4.45	5	2.70
8	4	16	4.10	6	2.40
8	6	16	4.75	8	2.85
10	4	19	4.45	...	.....
10	6	20	5.16	12	3.15
10	8	26	5.85	...	.....
12	4	...	.....	8	3.05
12	6	29	5.85	9	3.75
12	8	34	6.45	...	.....

Write Engineering Dept. for prices on sizes of pulleys not listed above.

1112 WARDS CRA

Solid Line Shaft Collars

Ⓓ Solid steel—unbreakable. Slotted head set screw sunk below surface for safety. Bored and reamed to size. Faced on one end. **State size.** **19c** ½-in.

Split Babbited Pillow Blocks

Ⓔ Precision reamed. Split to take up wear. **Grease cup lubrication**—requires less attention than oil wells. (Recommended for speeds up to 1000 R.P.M. on sizes listed below.) Heavy cast iron base slotted for lag screws or machine bolts. **State size wanted when ordering.**

Porous Bronze Bearing Pillow Blocks

Ⓕ **Solid type.** Precision reamed. (Recommended for speeds up to 3000 R.P.M. on sizes listed below.) Self-lubricating, compressed powdered bronze bearing contains about 30% oil. Oil only occasionally. Bearings will not score shaft if oiling is neglected. **State size.**

Size Bore In.	Shaft Collars 684 A 7618 Ship. Wt. Lbs. Oz.	(D) Each	Pillow Blocks 84 A 7616 Ship. Wt. Lbs. Oz.	(E) Each	84 A 7620 Ship. Wt. Lbs. Oz.	(F) Each
½	3	19c	1 1	59c	1 4	69c
⅝	4	19c	1 5	65c	1 6	75c
¾	5	19c	1 7	69c	1 8	79c
⅞	6	22c	1 9	75c	...	.....
1	6	24c	2 1	79c	2 4	$1.19
1 1/16	7	29c	2 2	85c	2 6	1.29
1 1/4	8	29c	2 12	89c	2 8	1.35
1 3/8	10	35c	2 14	98c	4 12	1.49
1 7/16	10	37c	5	1.00	4 14	1.55
1 1/2	10	39c	4 14	1.05	5	1.59
1 11/16	15	51c	6 12	1.65	.....	.....
1 15/16	1 5	61c	9 12	2.15	.....	.....



Standard Wire Hook Belt Lacer

Ⓖ Sets square on bench—easy to load. Use in any bench vise. Laces any belt up to ⅜ in. thick, any width—6 in. at a time. Jaws and shears heat treated steel. Instructions, pin for locking hooks. *Use with any standard belt hook.* **$2.75**

84 A 7736—Wt. 4 lbs. 8 oz. . **$2.75**

Wiregrip Belt Hooks

Ⓗ Make smooth, flexible lace on all types of belting. Eight 6-in. strips—lace 24 in. of belt. Rawhide pins. Use Lacer above. **State size.**

84 A 7740—Size 2. For light belts. Ship. wt. 9 oz. **33c**

Size 4. For belts up to ¼ in. thick. Ship. wt. 10 oz. **37c**

Size 5. For belts up to 5/16 in. thick. Ship. wt. 12 oz. **45c**

Steelgrip Flexible Belt Lacing

Ⓙ Tough, selected steel of high tensile strength. Points will go through toughest belts—stand long, continuous use with minimum wear. Works on Canvas, Rubber or Leather belting. Will not pull out when properly installed. Long wearing steel rocker pins included. Easy to apply with a hammer. **State size number when ordering.** **20c** Pkg. Size 15

84 A 7739—22-in.—for 12 inches of belt.

84 A 7733—90 in.—for 48 inches of belt.

Size No.	For Belts Thickness Inches	84 A 7739 Ship. Wt.	Handy Pkg.	84 A 7733 Ship. Wt. Lbs.	Oz.	Regular Box
15	1/8 to 3/32	6 oz.	20c	.....		
20	3/32 to 1/16	8 oz.	25c	1	4	85c
25	1/16 to 3/32	10 oz.	30c	1	8	95c
27	1/4 to 3/32	12 oz.	35c	1	12	$1.00
35	3/32 to 5/16	1 lb.	45c	2	12	1.45

Lace Leather Bundle

Ⓚ For belt lacing, harness repairs, etc. Indian Tan, Chrome, and Rawhide strips in asst'd. sizes. Fresh stock. Leather wrapper. Ship. wt. 1 lb. 4 oz. **23c** 84 A 7727

84 A 7727—1-lb. bundle. 23c

84 A 7730—Extra High Quality. Choice assortment. 1-lb. bdle. . 43c

Rawhide Belt Laces

Ⓛ Uniform width and length. Tough, well oiled. Each lace wrapped. Box contains about 50 ft.

84 A 7719—State width wanted.

Width In.	Length Ft. About	Ship. Wt. Box	Per Length	Per Box
¼	4	12 oz.	5c	45c
⅜	5	1 lb.	9c	75c
½	6	1 lb. 4 oz.	15c	1.00
⅝	7	1 lb. 8 oz.	20c	1.25



15c Salem Style Steel Elevator Buckets 4x3 in.

Max. capacity: 4 by 3-in. is 20 cubic in.; 6 by 4-in. is 54 cubic in. Drilled for two bolts. No bolts furnished.

84 A 7708—State size wanted.

Length	Width	Gauge	Ship. Wt	Each
4 in.	3 in.	22	10 oz.	15c
6 in.	4 in.	20	1 lb.	25c

84 A 7712—25 Flat Head Bolts for above. ¼x1 in. with nuts. Shipping wt. 1 lb. 4 oz. **49c**



19c (N) Wards Belt Dressing —Stick and Liquid

Prevents slipping—keeps belts pliable—adds life and increases efficiency.

(M) **84 A 7713—Liquid.** For use on all types of belts. **State Size.** **29c**

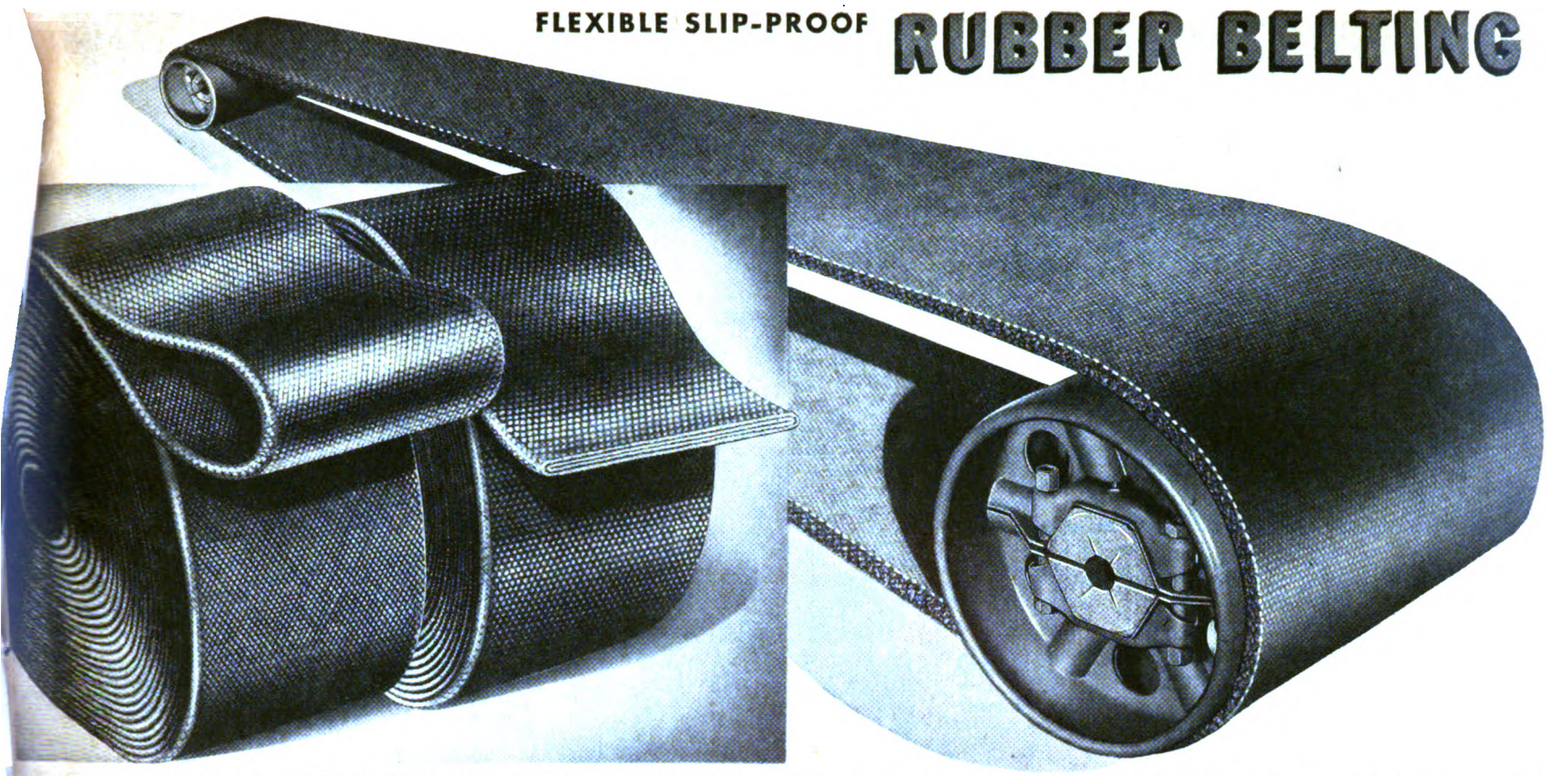
½ pint. Shipping wt. 12 oz. 75c

1 quart. Shipping wt. 2 lbs. 8 oz. ... 75c

(N) **84 A 7710—1-lb. Stick.** For use on leather or canvas. Easily applied when belt is running. Ship. wt. 1 lb. 4 oz. Each **19c**

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FLEXIBLE SLIP-PROOF RUBBER BELTING



32-oz. Power Devil Rolled Edge Red Rubber Belting
A Favorite for General Farm and Industrial Use

- **Thoroughly** impregnated with fresh, live rubber for greatest flexibility—surrounds and protects every cotton fiber. Entire belt vulcanized into one unit.
- **Steamproof**—moistureproof—not affected by heat or cold—acid-resisting—**extra tough**—long-wearing. Slip-proof traction in any kind of weather.

Excelled only by Raw Edge Belting at right. Requires no breaking in—pre-stretched 32-oz. U. S. Standard cotton duck. Extra layer of friction surface rubber applied to *both* outside surfaces. Improved rolled edge protected against side wear and fraying.

Ideal for separators, harvesters, sawmills, pump jacks, grinders, etc. Also for main and counter drives in industrial use. But not for hammer mills—use Raw Edge belt at right for hammer mills. 3-ply about 5/32-in. thick; 4-ply about 13/64-in.; 5-ply about 1/4-in. "How to Order" below. *Sizes to 70 lbs. Maiable.* **State width and length wanted.**

By the Foot **12c** 2 in. 4-Ply

Endless **$4.98** 4-Ply 4 in. by 20 ft.

Red Rubber Belting by the Foot

684 A 7693—3-Ply Width In.	Ship. Wt.	Per Foot	684 A 7694—4-Ply Width In.	Ship. Wt.	Per Foot	684 A 7695—5-Ply Width In.	Ship. Wt Lbs	oz	Per Foot
1	1 oz.	7c	2	3 oz.	12c	5		9	35c
1½	2 oz.	9c	2½	4 oz.	15c	6		11	40c
2	2 oz.	11c	3	5 oz.	17c	8		14	50c
2½	3 oz.	13½c	4	6 oz.	22½c	10	1	2	65c
3	4 oz.	16c	5	7 oz.	27c	12	1	5	80c
4	5 oz.	20c	6	9 oz.	32c				
..	....	....	7	10 oz.	38c				
..	....	....	8	12 oz.	43c				

Use Your Credit See Inside Back Cover

Red Rubber Endless Belts

184 A 7696—32-oz. 4-Ply Width	Length	Ship. Wt	Each
4 In.	20 Ft.	6 Lbs.	$4.98
4 In.	30 Ft.	9 Lbs.	7.35
5 In.	30 Ft.	12 Lbs.	8.90
5 In.	40 Ft.	16 Lbs.	11.60
5 In.	50 Ft.	23 Lbs.	14.25
6 In.	30 Ft.	14 Lbs.	10.50
6 In.	40 Ft.	20 Lbs.	13.75
6 In.	50 Ft.	25 Lbs.	16.95
6 In.	60 Ft.	31 Lbs.	19.98
6 In.	75 Ft.	38 Lbs.	24.85
6 In.	100 Ft.	51 Lbs.	32.95
7 In.	50 Ft.	29 Lbs.	20.00
7 In.	75 Ft.	44 Lbs.	29.60
7 In.	100 Ft.	60 Lbs.	39.10
7 In.	125 Ft.	79 Lbs.	48.60
8 In.	75 Ft.	51 Lbs.	33.50
8 In.	100 Ft.	71 Lbs.	44.25
8 In.	125 Ft.	89 Lbs.	54.95

Low Prices on Gray Rubber Belting

Wards save you 25% of what you'd pay elsewhere for this quality. Pre-stretched American long fiber cotton duck, thoroughly impregnated with fresh, live rubber—then vulcanized (like an auto tire) into one inseparable unit. Protects duck—prevents internal friction. Slip-proof. **State width, length.**

4c Ft. 24-Ounce 1-in. Width

2-Ply 24-oz. Gray Rubber Belting
For light duty transmission work. About 3/32-in. thick.

684 A 7680—2-Ply Width In.	Ship. Wt.	Per Foot
1	1 oz.	4c
1½	2 oz.	6c
2	2 oz.	8c
..	....	....

Wards 3 and 4-Ply 28-oz. Gray Rubber Belting
Extra standard grade for small gas engines, small pulleys, electric motors, etc. 3-ply is about 9/64-in. thick; 4-ply is about 3/16 in.

684 A 7684—3-Ply Width In.	Ship. Wt.	Per Foot
1½	2 oz.	8c
2	2 oz.	10c
2½	3 oz.	12½c
3	4 oz.	14c

684 A 7685—4-Ply Width In.	Ship. Wt.	Per Foot
3	5 oz.	16c
4	6 oz.	20c
5	7 oz.	23c
6	8 oz.	30c

Wards Master 33-oz. Industrial or Hammer Mill Belt
Best There Is for High Speed Small Pulleys

- Straight-cut Raw Edges wear longer than rolled edges.
- One continuous wrapping—no splice to break or weaken.
- Pre-stretched—thoroughly impregnated with fresh, live rubber—belt is heavily friction surfaced to prevent slippage.

Finest Rubber Belting we know of! Stands more strain than rolled edge belting. Edges won't crack or break—protected against ply separation. Belt runs smoothly over any size pulley at any speed. Best for hammer mills and high speed, small pulley machinery, and for heavy duty work. U. S. Standard 33-oz. hard woven duck—20% greater tensile strength, 50% less stretch than regular cotton duck! More rubber between plies gives maximum flexibility.

Vulcanized into one inseparable unit. Heatproof, moistureproof, acid resisting. With proper care it will give years of service. See "How to Order" at left below. Sizes up to 70 lbs. *Maiable.* **State width and length.**

By the Foot **17c** 2 in. 4-Ply

Endless **$6.98** 4-Ply 4 in. by 20 ft.



Moistureproof, heatproof, flexible—clings to pulley in any weather.



Continuous wrapped construction—no splice to break or weaken the belt.



More rubber between plies—forced through cotton fibers—vulcanized.

Straight Cut Raw Edge Belting by the Foot

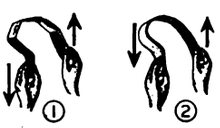
About 3/16 in. thick. Laced without charge with Wire-grip or Steelgrip lacing if requested when ordered.

684 A 7688 Width In.	Ship. Wt.	Per Ft.
1½	2 oz.	13c
2	3 oz.	17c
2½	4 oz.	21c
3	5 oz.	24c
4	6 oz.	30c
5	7 oz.	36c
6	9 oz.	43c
7	10 oz.	50c
8	12 oz.	54c
10	14 oz.	67c

Straight Cut Raw Edge Endless Belts

Width	Length	Ship. Wt.	184 A 7686
4 In.	20 Feet	6 Lbs.	$6.98
4 In.	30 Feet	9 Lbs.	9.90
5 In.	20 Feet	8 Lbs.	8.25
5 In.	30 Feet	12 Lbs.	11.85
5 In.	40 Feet	17 Lbs.	15.45
6 In.	30 Feet	16 Lbs.	14.15
6 In.	40 Feet	21 Lbs.	18.45
6 In.	50 Feet	26 Lbs.	22.75
6 In.	60 Feet	32 Lbs.	26.95
6 In.	75 Feet	40 Lbs.	33.50
7 In.	50 Feet	31 Lbs.	26.50
7 In.	60 Feet	37 Lbs.	31.50
7 In.	75 Feet	46 Lbs.	38.95
7 In.	100 Feet	62 Lbs.	51.50
8 In.	50 Feet	36 Lbs.	28.60
8 In.	75 Feet	53 Lbs.	42.10
8 In.	100 Feet	74 Lbs.	55.60

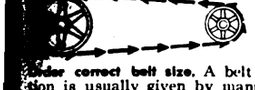
PROVE WHY STRAIGHT CUT RAW EDGE BELTS ARE BETTER



① Fold a piece of paper until you have 4 thicknesses. Hold it by the ends and move it up and down as indicated at left. Notice that it doesn't bend smoothly around a small diameter but remains stiff.

② Now trim both edges with scissors. Move hands in same way as above. Note that pieces now hug each other—bend easily without angles. These pieces of paper show action of a belt on a small pulley—show why Wards Raw Edge Belt is better for hammer mills and small, high speed pulleys. Edge of belt won't break down at high speeds—fits pulley snugly.

HOW TO ORDER BELTING



Endless Belts—Measure *around* pulleys (see picture at left)—*not* from center to center. In line with general practice, actual lengths of endless belts listed are about 3 ft. shorter than sizes shown—a 30-ft. belt actually measures about 27 ft.

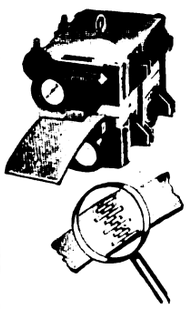
Order correct belt size. A belt recommendation is usually given by manufacturer of a machine. For best results follow this recommendation. Pulleys should be 1/2-in. wider than belts on belts up to 5 inches wide; 1 inch wider on belts 4 to 12 inches wide. *Always use as wide and as long a belt as possible*—it will work better, wear longer.

Hammer mill belts travel at high speeds over small pulleys. *We recommend a 50, 60 or 75-foot belt for hammer mill use.*

Ply and pulley diameter. We recommend the following minimum pulley diam. for *standard 32-oz.* folded rubber or canvas belts: 3-ply—4-in. diam.; 4-ply—8-in. diam.; 5-ply—12-in. diam. These diameters will give you maximum life of belt. They can be reduced, but doing so will reduce the life of belt, unless it is built specifically for small pulleys and high speeds.

NOTE: Wards Master 32-oz. Blue Canvas Belts and Master 33-oz. Straight Cut Edge Rubber Belts are *specially built for small pulleys and high speeds*—can be used on 3-in. pulleys without shortening life of belt. On Wards Master 37 1/2-oz. Blue Canvas Belts we recommend 6-in. diam. pulleys. If still in doubt about which belt to buy, write Wards Engineering Service Dept. giving complete information.

BELTING BY THE FOOT—SPLICED TO ORDER



Flat belting can be made endless for the extra charge shown below. **State article number, width of belt and actual length**—be sure to measure *around* pulleys. Also specify on order, "With Splice" (state kind); and allow for extra charge as described below. Send order to Mail Order House nearest you. You pay postage from there.

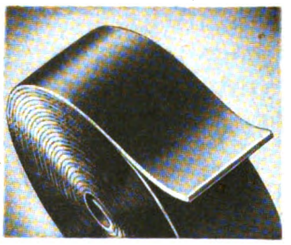
Rubber—Vulcanized Splice. Made endless for a charge equal to 10 extra feet of belting. Rubber belts 2 to 10 in. wide, and over 8 ft. long vulcanized in Chicago Mail Order House—allow 3 extra days. **Belts under 56 in. cannot be vulcanized.** Belts wider than 10 in. and less than 8 ft. long shipped from Factory. Allow 15 extra days.

Canvas—Stitched Splice. Made endless at Factory near Philadelphia for a charge equal to 6 extra feet of belting. Allow 10 extra days.

Leather—Cemented Splice. Made endless at Factory in Chicago for a charge equal to 2 extra feet of belting. Allow 3 extra days.

Wards Lacing Service. All Wards Roll Belting will be laced without charge with Wiregrip or Steelgrip lacing if requested at the time you order. When ordering laced belts, state exact length of belt, making no allowance for splice. **State Steelgrip or Wiregrip lacing on order.**

YOU CAN BUY WITH COMPLETE CONFIDENCE AND SAFETY AT WARDS
Our Guarantee of "Satisfaction or Your Money Back" protects you. See Page 1165.



Flat Leather Belting **10c** Per Foot 1-in. wide

Strong, firm, oak-tanned leather. Stretch removed during manufacture. Slip-proof, oil-proof, water-proof—delivers 10% to 50% more power than Canvas or Rubber belts. Soft and pliable in all weather. Will not come apart, crack or break. Use indoors or out.

Sold by the foot only. Laced with Steel-grip or Wire-grip lacing, at no extra charge, if requested. *Made Endless with water-proof cement at Factory in Chicago for charge of 2 extra feet of belting. Allow 3 days extra when ordering.* You pay Postage from nearest Mail Order House. **State width and length.** *Sizes up to 70 lbs. are Maiable.*

684 A 7706—Single Ply—Abt. 3/16 in. Thick Width, In	1	1½	2	2½	3	4	5
Wt., Oz.	1	2	2	3	4	5	6
Per Ft	10c	15c	20c	25c	30c	40c	50c



Speed Indicator

Starrett No. 104. For line shafts and motors. A handy tool in any workshop. Press against end of whirling shaft—gives accurate count of revolutions. Nearly frictionless—may be run at high speed without damage. Precision built for accuracy. Two rubber tips included. Dial indicator is easy to read. Instructions for operating included.

84 A 1861—Shipping wt. 8 oz. **$1.25**



Leakproof, Reinforced Spout Base—Threads 'nside Can.

(P) Mowing Machine Oiler. ¾ *pint* tinned steel. 4-in. spout. 3-in. diam. bottom
84 A 7643—Ship. wt. 8 oz.
Each.....10c; 6 for **55c**

(R) Copper Plated Bench Oiler. ½ *pint*. 3-in. spout. Strong steel bottom, 3½-in. diam. Ship. wt. 10 oz.
84 A 7642—Each.....**10c**

(S) Flexible Spout Oiler. ½ *Pint* coppered steel. 8½-in. spout flexes in any direction. 3½-in. double seamed spring steel bottom. **State width and length.**
84 A 7655—Wt. 12 oz.
Each.....**23c**

(T) Hydraulic Harvester Oiler. ¾ *Pint* coppered steel. 6-in. welded steel spout. Machined brass plunger, ball valves. 3-in. bottom fits all farm machinery holders. Ship. wt. 1 lb. 4 oz.
84 A 7650—Each.....**79c**

(U) Machinists' Trigger Oiler. Used in garages and service stations. Positive hydraulic action. Shoots stream 25 ft. or a single drop. Removable cone tip fits oil holes. Polished solid brass. 6-oz. *capacity*. 4¾-inch seamless brass spout.
84 A 7651—Ship. wt. 1 lb.....**98c**

Wards Time Payment Plan Will Help You Pay for Belting
Just $2 a month pays for a $14 order. Buy this convenient, practical way—see Inside Back Cover for complete details.

Cold Drawn Steel Shafting

Use for line shafts and rollers for heavy machinery. Cut to exact length—no waste—order only as much as you actually need—any length up to 16 feet. Write Wards for prices on sizes that are not listed. *Lengths up to 7 ft. Maiable.*

Diam. In.	Ship. Wt. Per Ft.	Per Ft.
½	12 oz.	17c
¾	1 lb. 8 oz.	20c
1	3 lbs.	29c

84 A 7625—Order from table at right. State diam. and length.

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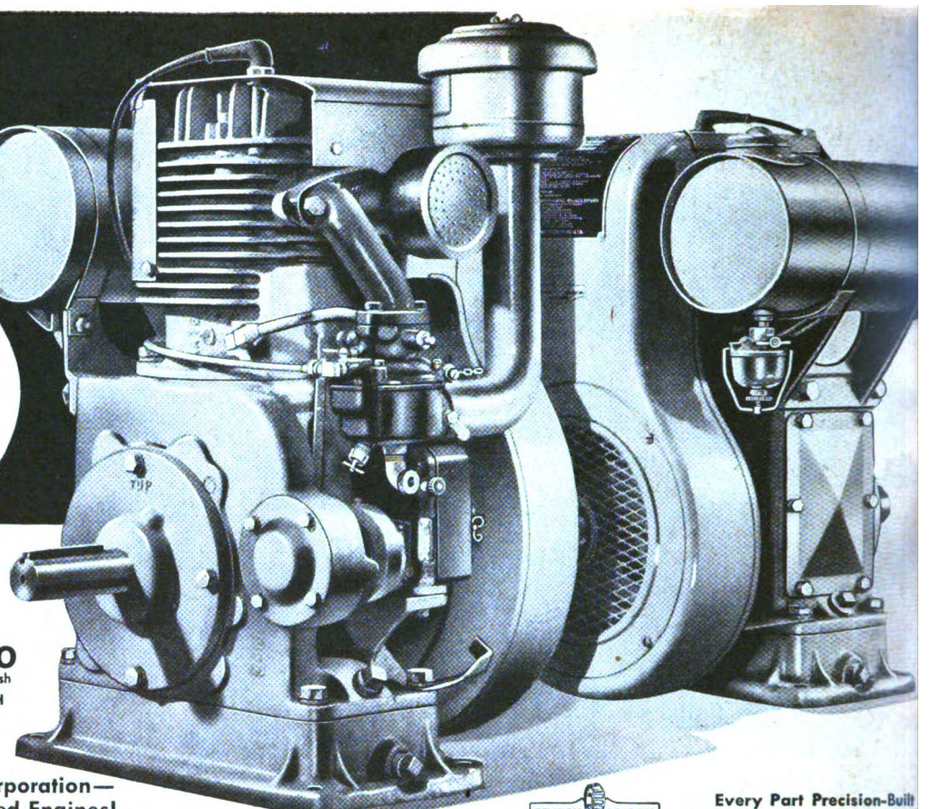
"POWER SPEED" CONTROL

Found Only on WARDS 1¾ TO 9 H. P. ENGINES

USE ONE ENGINE FOR MANY JOBS

Just set the pointer to the speed or horsepower you want—Exclusive "Power-Speed" Control on Wisconsin-made Ward Engines adjusts feed and governor—instantly—as easily as pointing your finger. Use ONE ENGINE for many jobs, even though each requires a different H.P.—different speed. To idle the engine, retard lever—save gas!





1¾ H. P. $56.95 Cash $6 A MONTH

2¾-H.P.	4½-H.P.	6-H.P.	9-H.P.
$70.95 Cash	$89.50 Cash	$106.50 Cash	$139.50 Cash
$7 A MONTH	$8 A MONTH	$8 A MONTH	$10 A MONTH

See Inside Back Cover for Wards Convenient Time Payment Plan

Heavy-Duty Engines. Made by Wisconsin Motor Corporation—World's Largest Manufacturer of Heavy Duty Air-Cooled Engines!

Get the same make of Engine that's used to power the machines of more than 325 manufacturers of nationally-known equipment—yet pay no more at Wards than you would for ordinary light-duty engines sold elsewhere. Use one of these fine engines as you pay for it. See Back Cover for Terms.

Get up to ¾-Horsepower More in each size—and pay no more for it!

Get Longer Life—Wards 1-Cylinder, L-Head, 4-Cycle Engines develop their rated H.P. at much lower speeds than ordinary engines. (See table below.)

Get Economical Operation—These Air-Cooled Engines use only about 1/10 gal. of gasoline per horsepower, per hour. They're miserly on oil, too!

Get 18 More Extra-Quality Features—More power and low-cost operation are important—but they're only part of the story! You get 18 more big features, described above and at right, many exclusive with these engines—Timken Roller Bearing Crankshafts, Auto-Type Carburetion, Power-Speed Control—that let you use these engines for a dozen different jobs.

Precision Construction—Built to the same S.A.E. Standards, and of the same materials as today's leading automobile motors. Every moving part is machined, ground, and polished to microscopic tolerances.

Factory-Tested and Tuned—Every Ward Engine is "broken in"—run on a testing block for several hours—"tuned up" to the most efficient operating point—then given a final inspection by trained mechanics.

Cylinders—Close-grained cast iron—walls polished to mirror finish.

Connecting Rods—I-beam construction for extra rigidity.

Finest Babbitt Metal Bearings—Extra large for long wear.

Silchrome Steel Valves—Replaceable steel seats (on exhaust).

Aluminum Alloy Piston—Same as on finest cars. Heat-treated, 3 large, accurately fitted rings (two compression, and one oil).

Drop-Forged Steel Crankshaft—Larger diameter than on most engines of equal H.P. Counterbalanced with 2 weights forged integral with shaft.

Timken Roller Bearings on crankshaft allow greater power output—reduce friction—assure long life. Few other engines have this feature.

Cast Iron Flywheel—Extra-large diameter. Eliminates excess vibration.

Built-In Governors—Won't falter on temporary overloads—assure steady speed. Centrifugal, flyball type—more sensitive to load changes.

Efficient Lubrication—Engines can be operated at an angle as great as 15 degrees, and still receive positive lubrication—this is important on boat installations, etc. Cam-operated oil pump on 2¾, 4½, 6, and 9-H.P.—splash-type lubrication on 1¾-H.P. models.

Exclusive Sealed Construction—Crankcase and entire engine frame are sealed against dust, dirt, and moisture. Oil-bath Air Cleaners filter all air before it reaches carburetor. Tillotson Gasoline Filter removes water and sediment from fuel. Result—reduced wear, long life!

Ease of Access and Repair—and parts are always available in a hurry.

Light Weight—Invalids use them for motorized wheel chairs, etc.

Rustproof Enamel Finish—Easy to wipe clean. Black trim.

Rotation—Shaft turns counter-clockwise (viewed from shaft end).

Altitudes Reduce Power—Remember this when you order your engine. Starting at 3000 ft. above sea level, deduct 3% H.P. for each additional 1000 feet of altitude. Buy an engine with enough power to offset this loss.

Twin Disc-Clutch, Natural Gas Carburetor, Elec. Starter and Generator, and Fuel Oil Equipment, listed in table below, are installed at factory. (Not sold separately.) Write for full description. To get any of this extra equipment, specify on your order and add amount shown below. Pulleys not included (see index). Engines with this equipment are shipped from Factory near Milwaukee, Wis. Allow 30 days extra.

Remote Control Throttle Wire for 1¾ to 9 H.P. Engines



Easily attached for instant speed adjustment—direct from handlebars or dash of tractor, scooter, etc. 6 ft. long, in flexible cable. Push-button control. **Shipped from Factory** near Milwaukee, Wis., in 7 days.
M287 A 2944—Wt. 1 lb. *Mailable*....98c



Every Part Precision-Built

Counterbalanced Crankshaft, dr forged, runs smoothly on 2 heav duty anti-friction Timken Rol Bearings. Aluminum-alloy pist and oversize connecting rod. S chrome steel valves (on exhaus with replaceable steel valve seat

Can't Freeze or Overheat

Air-cooled! Heavy duty flywhe with deep cast blades drives co air through shroud to cooling f on cylinder and head. No overhea ing, no freezing. Runs cooler an lasts longer. Big flywheel lesse vibration, assures smooth runnin

Economical Carburetion

Zenith and Stromberg Auto-Ty float-feed carburetors have aut matic chokes to save gasoline an prevent engine from flooding. O Bath Air Cleaners on all mode keep dust and dirt out of engin All sizes have efficient Tillots Gasoline Filters.

Instant Start in Any Weathe

Famous Wico or Fairbanks-Mor Hot Spark Magneto, with impuls coupling, produces hotter spark assure instant start on first tu of crankshaft. Same spark engi produces when running at full spee Mounted on outside.

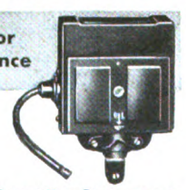
1¾ AND 2¾-H.P. *Shipped from Kansas City, Baltimore, Albany or Pittsburgh. Order from Nearest House. Others from Kansas City, Baltimore or Albany.*

***Rated H.P.** Recommended R.P.M. at which engine reaches peak efficiency; design of Ward engines permits close to maximum efficiency at all speeds shown.

Rated Power	Article Number	Mfr's Model	Price with Stub Shaft (No Pulley)	Ship. Wt. Lbs.	Net Wt., Lbs	Brake Horse-Power Produced at Various Speeds								Type Starting Device	Cyl. Bore, In.	Piston Stroke In.	Pulley Shaft, Inches		Key Way, In.	Fuel Cap., Gal.	Oil, Cap., Pints	Height In.	Distance Betw. Base Bolt Holes	Add for Twin-Disc Clutch	Add for Natural Gas Carb. & Reg.	Add for Elec. Starter-Generator	Add for Fuel Oil Equipment
						1200 R.P.M.	1400 R.P.M.	1600 R.P.M.	1800 R.P.M.	2000 R.P.M.	2200 R.P.M.	2400 R.P.M.	2600 R.P.M.				Diam.	Length									
1¾ H.P.	P187A 2935	AA	$56.95	90	65	3/10	1½0	1¼	1½0	1⅝0	*1¾	1⅞0	1⅞0	Rope	2¼	2¾	1	2⅞	¼	1	1¾	18¾	4⅛16x 7⅝ in.	$30.00	.....	.....	$7.00
2¾ H.P.	P187A 2936	AB	70.95	95	70	1½	1¾	2	2¼	2½	*2¾	2⅞0	3	Rope	2½	2¾	1	2⅞	¼	1	1¾	18¾	4⅛16x 7⅝ in.	30.00	.....	.....	7.00
4½ H.P.	187 A 2942	ADH	89.50	150	125	2¼	2¾	3¼	3¾	4¼	*4½	4¾	5⅛	Crank	2¾	3¼	1⅛	3¼	¼	1½	3	20⅝16	6¼ x10⅝ in.	30.00	$34.00	$50.00	7.00
6 H.P.	187 A 2941	AEH	106.50	155	130	2¾	3¼	3¾	4½	4¾	5¼	*5¾	*6	Crank	3	3¼	1⅛	3¼	¼	1½	3	20⅝16	6¼ x10⅝ in.	30.00	34.00	50.00	7.00
9 H.P.	187 A 2943	AHH	139.50	205	180	6	6¾	7¾	8½	*9	9¼	9¼	.....	Crank	3⅝	4	1 13/16	4	⅜	1½	4½	24⅜	6 11/16x13 7/16in.	30.00	34.00	50.00	7.00

Aluminum is vital to the National Defense Program. If unable to supply engine parts of aluminum as designated, Wards will notify you before shipment.

Magnetos Rebuilt for "New Part" Performance



FOR 1 AND 2-CYLINDER ENGINES ONLY — Rebuilt for As Low As **$5.95**

Wards Rebuilt Magnetos Give Brand New Performance. Completely rebuilt with all worn parts replaced with brand new parts (bearings, screws, points, etc.). Tested and adjusted on the block. (For rebuilding magnetos for 4 and 6-cyl. engines, see Index, "Magnetos, Tractor, Rebuilt.")

For 10-day service, follow these instructions exactly. 1. Mail old magneto *postpaid*, insured Parcel Post direct to Magneto Rebuilding Service, Box 5240-A, Chicago. Don't send Freight or Express, nor to Wards Mail Order House. 2. On same day, mail your order for rebuilding service to Wards Mail Order House, including return postage equal to that required to send your magneto to Chicago. 3. On order state article number for magneto make. Include amount below. Prices below are not for new magnetos.

M287 A 5143—For Rebuilding Wicos or Eisemanns..$5.95
M287 A 5144—For Rebuilding other Magnetos..... 7.95

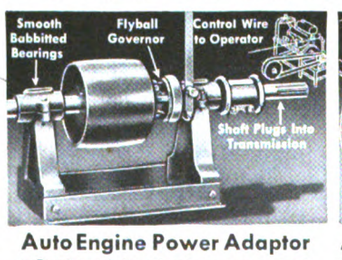


Replacement Parts for Wico Magnetos

Genuine Wico Parts—Save 10%. Average ship. wt. 3 oz.

Article No.	Part Description	Wico No.	Model	Price
87 A 5192	Contact Point Set (A)	12-X502	EK	$1.80
87 A 5189	Condenser (B)	12-X235	EK	1.17
87 A 5191	Condenser (C)	X1413	A & C	1.08
87 A 5188	Terminal Block	1KCX-120	EK	36c
87 A 5194	Breaker Arm and Bracket (D)	X1408 and 1196	A & C	1.57
87 A 5190	Condenser (E)	A384	FG	1.21
87 A 5193	Breaker Bar and Contact Screw (F)	18-X142D and 18X301-B	FG	1.57

See Inside Back Cover for Time Payment Terms.



Auto Engine Power Adaptor

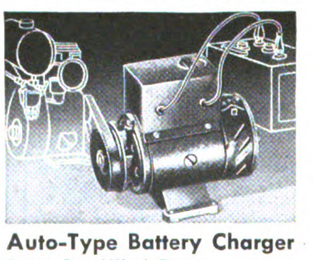
- Outboard bearings—no strain on engine.
- Fits any make or model of car or truck!

$24.95 Cash $3.50 a Month See Back Cover

Build a power unit—run sawmills, pumps, etc.

All you need is an old auto engine and a Ward Power Adapter. Power-takeoff consists of cold rolled steel shaft, 1½-in. diam.—splined to fit into the universal socket of car transmission. Shaft turns on self-aligning ball bearings. Built-in governor adjusts for engine speed changes. Special idling device saves fuel and wear—no other pulley-adaptor has it. Flat pulley has machined crown face. Extra pulley can be added to extension of shaft. **State make, year, Model No. of Car.** (If Buick, state Master or Standard.) **Shipped from Factory** near Kansas City in about 10 days.

287 A 2819—Complete Governor-Pulley outfit. Has 8 in. diam. pulley with 6½-in. face. Ship. wt. 67 lbs.....$24.95
287 A 2818—As above but with 12-in. diameter pulley (8-in. face). Shipping weight 100 lbs.....$32.95
287 A 2820—Like 287 A 2819 but without governor. For auto engines already having governor. Ship. wt. 60 lbs..$12.50

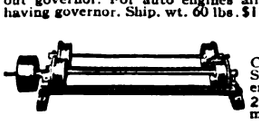


Auto-Type Battery Charger

Double Duty! Wards Battery Charger will charge batteries for your car or radio—and run five 25-watt lights for your home, barn, or garage, most of the time at No Extra Cost! Just belt the charger to any small engine—and run it at the same time engine is operating milker, separator, pump jack or shop machinery. Completely rebuilt, automotive air-cooled type. Cast iron base (with bolt holes drilled). Complete with ammeter, automatic cut-out, two 3-ft. lengths of insulated battery cable, clips for attaching cables to terminals. 6-volt output—110 to 125-watt capacity—20-ampere charging rate. With 3½-in. V-Pulley for belting charger to engine (use ½ or 2½-in. V-belt). V-belt and engine pulley not included. See Index ("V-Drives") for information on ordering engine pulley of correct diam. to run charger at 1750 R.P.M. **Shipped from Stock.** *Mailable.*

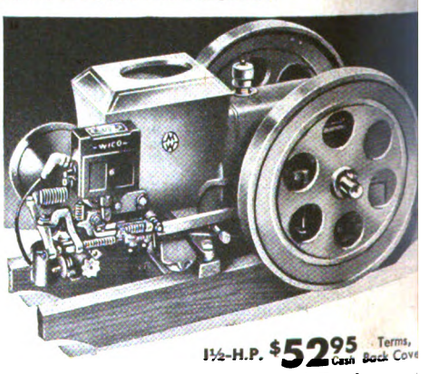
$8.25 110 Watt

487 A 5120—Ship. wt. 22 lbs.....$8.25
M287 A 5121—Brand New Charger. As above but has 250-watt output. For 6 or 12-volt batteries. Ammeter not included. **Shipped from Chicago Factory** in about 7 days. Shipping weight 25 pounds. *Mailable*.....$14.95



Auto and Truck Power Take-Off

Car's rear wheels drive four 10 by 6½-in. wheels. Steel shafts, babbitted bearings, grease cups, wood-en frame, 12 by 6-in. pulley. Wt. 310 lbs.
287 A 5045—**Shipped from Factory** near Baltimore in about 10 days.....$31.95



1½-H.P. **$52.95** Cash Terms, Back Cove

Low-Speed Water-Cooled Engines

Same quality Engines are sold under the famous manufac turer's name at prices 15 to 23% higher than Wards! Many mfrs. of concrete mixers and other industrial equipment instal them in their finished machines. Heavy duty, 1 cylinder, 4 cycle power units—use about 1 pt. of fuel per H.P. per hour

Easy-Starting, Smooth Running—High tension Wico Mag neto gives hot spark for quick starting. Valve-in-head type u construction assures steady, reliable running.

Positive Cooling—Big hopper. Cylinders have water jackets.

Ruggedly Built—Drop forged crankshaft and connecting rod machine cut gears, honed semi-steel piston with 3 rings, ad justable removable die-cast bearings, and cast iron flywheel. With galv. fuel tank, crown face cast iron pulley. On strong wood skids. 1½-H.P. has hit-and-miss type governor—for gasoline only. Others have flyball governors, automatically oiled crankcase—run on gasoline, kerosene, or fuel oil. **Shipped from Factory** near Belvidere, Ill. in about 10 days.

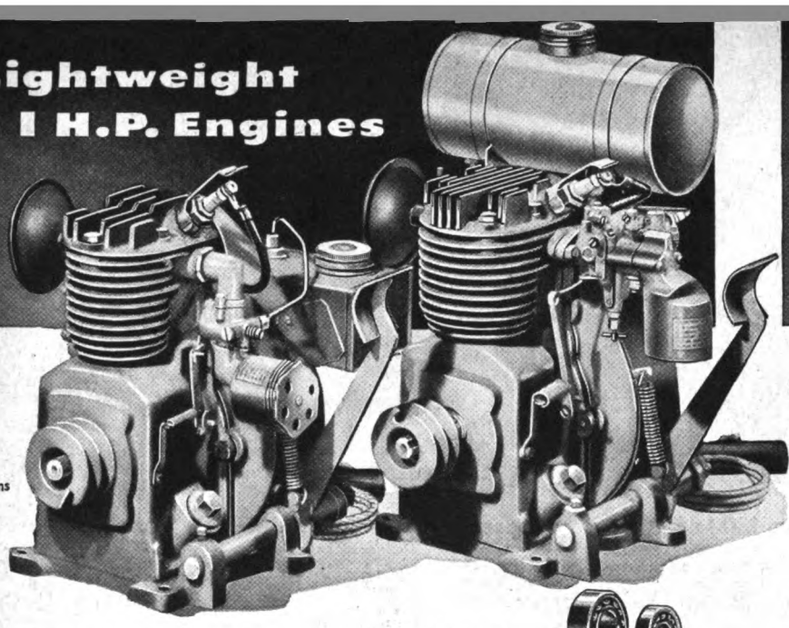
Article Number	H.P.	Speed R.P.M.	Pulley, In. Diam.	Pulley, In. Face	Bore In.	Stroke In.	Fuel Galls.	Wt. Lbs.	Cash Price
287 A 5032	1½	600	4	4	3⅛	3½	¾	200	$52.95
287 A 5033	2	600	4	4	3⅛	4½	1¼	210	67.50
287 A 5034	3½	575	4	4	4½	5	2	300	87.50
287 A 5035	5	550	8	4	4¾	6	2½	450	114.50

Write for Prices on 8 and 10-H.P. Water-Cooled Engines.

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Lightweight 5/8 to 1 H.P. Engines

FLYBALL GOVERNED CONSTANT SPEED



5/8-H.P.
$29.89 Cash
$4 A MONTH
See Back Cover for Terms

1-H.P.
$35.89 Cash
$5 A MONTH

Auto-Type Engines

REMOTE SPEED CONTROL



1½-H.P.
$38.89 Cash
$5 A MONTH
See Back Cover

HAND THROTTLE

Air-Cooled—Smooth-Running Ball Bearings—Pedal Starter

- **Economical to Operate—They run 9 to 12½ hours on one gallon of gasoline.**
- **Powerful—Actually ¼ to ⅓ more power than in ordinary lightweight engines.**
- **Compact—11¼ in. high, weighing 31 to 34 lbs.—so light a boy can carry one.**

Check the features you get in Wards ⅝ and 1 H.P. Engines (Made by Lauson) that ordinary lightweight engines don't have. They're features that mean extra smooth performance, extra economy, extra life. You get ball bearing smoothness—sensitive adjustable Flyball Governor—efficient Air Cleaner—Dual Starting equipment (foot pedal and efficient rope starter (no other engine we've found gives you both). Actually, you'd have to pay up to $12 more elsewhere to get an engine that has only a few of these features—we know of no other engine of similar size that has all of them.

Wards Engines give you as much as 25% to 35% more H.P. besides. Because these ⅝ to 1-H.P. Steady-Speed Engines develop their rated power at lower speeds than many other engines in this power range, they last far longer, and have more power in reserve. You'll find them being used to run pumps, generators, feed mixers, shop machinery, battery chargers, air compressors, cream separators, washing machines, and on many other high or low speed jobs within their wide power range.

If you plan to use either of these engines for operating slow-speed machines we recommend that you buy it with the Factory-installed Reduction Gear shown at left. You'll get wider use from your engine—and cut your pulley costs on slow speed machines such as feed grinders, hoists, separators, pump jacks, concrete mixers, etc.

Thermo-Magneto (Wico or Eisemann)—Gives Hot Spark for instant starting on first turn of crankshaft. Dustproof and moistureproof.

Dustproof Crankcase—Oil tight. Holds 1 pt.

Screen-Type Air Cleaner—Not usual at such low prices. Filters dust and dirt from air before it enters carburetor—reduces wear.

Counterbalanced Crankshaft—Drop-forged steel. Lynite Aluminum alloy connecting rod.

Piston—Made of light-weight, heat-treated aluminum alloy. With three precision-fitted rings.

Durable Valves—High quality heat-resisting steel. On flywheel side for better cooling.

Positive Lubrication—to all parts even when machine is tilted at angle of 15°, a necessary feature when used on portable equipment.

V-Pulley Included—(Usually sold as an extra) 2¾-in. diam.—takes "A" size V-Belt. Shaft 1½-in. long, ⅝-in. diam. Turns counter clockwise. Attractive enamel finish. Engines with reduction gear mailed from near Oshkosh, Wis. in about 12 days. Others shipped from Baltimore, Albany or Pittsburgh. Order from nearest House.

⅝-Horsepower Engine (At Left Above)
Develops ⅝ H.P. at 2300 R.P.M. (governed speed). Adjustable from ½-H.P. at 1800 R.P.M. to ¾ H.P. at 2700 R.P.M. Adjustable suction feed carburetor. 1-qt. fuel tank. 1¾-in. bore, 1⅞-inch stroke. Net weight 31 lbs.

P487 A 5130—Wt. 37 lbs. *Mailable*... **$29.89**

M287 A 2914—As above with 4 to 1 Reduction Gear. Pulley shaft rotates clockwise. Rope starter only. Ship. wt. 52 lbs. *Mailable*..... **$36.89**

1-Horsepower Engine (At Right Above)
Develops 1 H.P. at 2300 R.P.M. (governed speed). Adjustable from ¾-H.P. at 1750 to 1½-H.P. at 3200 R.P.M. Equipped with Tillotson float feed carburetor, and gasoline filter. 2-qt. fuel tank. Uses about 1 gal. of gas in 9 hours. 2-in. bore, 1⅞-in. stroke. Net wt. 34 lbs.

P487 A 5131—Wt. 39 lbs. *Mailable*... **$35.89**

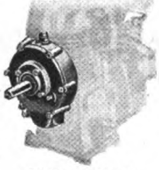
M287 A 2915—As above with 4 to 1 Reduction Gear. Pulley shaft rotates clockwise. Rope starter only. Ship. wt. 53 lbs. *Mailable*..... **$42.89**



Ball Bearings
Crankshaft turns on easy-running New Departure Ball Bearings.



Pedal Starter
No kick-back—starts with pressure of foot.



Built-in 4 to 1 Reduction Gear
Gear-reduction end of engine shaft runs at 575 R.P.M., opposite V-pulley end runs at 2300 R.P.M. Use engine on high or low-speed machines.

Air-Cooled—Instant Speed Control—Hand Throttle

- **100-140 Miles on 1 Gallon of Gasoline.**
- **Speeds up to 40 Miles Per Hour.**
- **Compact—rugged! For Auto-Type Uses.**

Power at your finger tips! Smooth, flexible, eager power—ready to be flashed into lightning speed at the touch of a lever on a handlebar, or at the tap of your foot on an accelerator. Wards Auto-Type Engines are built for powering Scooters, Boats, Bicycles, Lawn Mowers—in fact any installation requiring light weight, instant speed flexibility, and compactness. That's why these engines, made by Lauson, have powered more jobs of this type than any other make. Owners report thousands of miles on high-speed scooters—engines still good as new—still using practically no oil.

Automotive Construction—With aluminum pistons, Lynite connecting rods, ball bearing crankshaft, efficient air cleaners, famous Wico magnetos—and all the other Extra-Power features of the engines at left except governor and foot starter. (Has rope starter included.)

Remote Speed Control—Hand throttle to adjust speed has 6 feet of control wire in a strong, flexible cable—with control lever at end. Instant action.

Tillotson High-Speed Carburetor—Has idling jet, permits even flow of power even at idling speed of 900 R.P.M.

Built-In Oil Pump—Specially designed for perfect lubrication at extreme speeds of 30 to 40 M.P.H. (3000 to 4800 R.P.M.). Oil Bath Air Cleaner—filters out dust and dirt. Mailed from stock in Baltimore or Albany.

1½-Horsepower Engine
Develops 1½-H.P. at 2200 R.P.M. 1½-H.P. at 3200 R.P.M. 1⅝-H.P. at 4800 R.P.M. Speed range 900 to 4800 R.P.M. Bore 2 in., stroke 1⅞ in., shaft diam. ⅝ in. 2-qt. fuel capacity. Ht. 11¼ in. Net wt. 27 lbs. Ship. wt. 36 lbs.
487 A 5132 ..... **$38.89**

2¼-Horsepower Engine
Develops 1½ H.P. at 1800 R.P.M., 1⅞ H.P. at 2400 R.P.M., 2¼ H.P. at 3400 R.P.M. Speed range 900 to 3400 R.P.M. Bore 2¼ in., stroke 2¼ in., shaft diam. ¾ in. 1-gal. fuel capacity. Ht. 19⅝ in. Net wt. 52 lbs. Shipping weight 57 lbs.
487 A 5129..... **$55.89**



Carburetor—Oil Pump
Equipped with Tillotson High-Speed Carburetor (at left) with idling jet. Built-in Oil Pump (at right) assures positive and economical lubrication at all speeds.

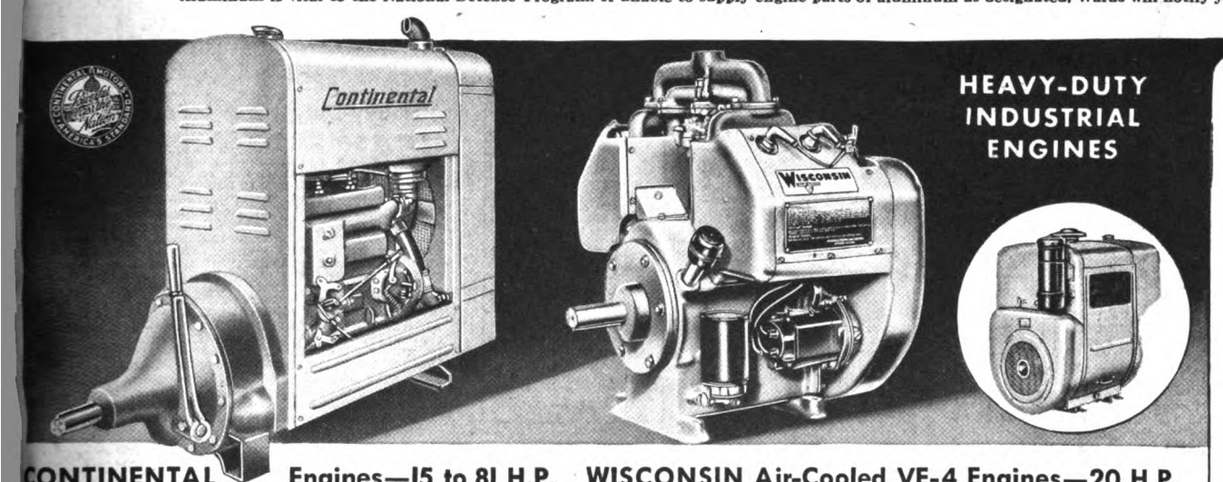


101 Uses



Yours for $5 a Month
Enjoy the work-saving convenience of a Light-Weight Engine—Now! Why wait until you've saved up the complete cash price. See Back Cover for Wards Time Payment Terms.

Aluminum is vital to the National Defense Program. If unable to supply engine parts of aluminum as designated, Wards will notify you before shipment.



HEAVY-DUTY INDUSTRIAL ENGINES

CONTINENTAL Engines—15 to 81 H.P.

Individual Porting—Smoother, more Economical flow of power because fuel mixture is uniform in each cylinder. Exclusive with Red Seals!

Full Length Water Jackets—Complete, uniform cooling under hardest working conditions.

Thermo-Siphon Cooling—Pump Lubrication—Continental Red Seal Engines—the most famous engines made—priced by Wards to save you 10 to 15%! Continental's "Dependable Power" has been proved on thousands of installations.

And now Red Seals give Greater Fuel Economy—More Mileage—Smoother Performance—and Longer Life than ever before! Individual Porting means that each cylinder has its own fuel passage—each gets the same mixture and amount of fuel. Less fuel is wasted by incomplete combustion, and each cylinder delivers equal power. The resulting smooth flow of power eliminates torsional strains and vibrations that wear out other engines. With Bosch Magneto, Heavy-Duty Twin-Disc Clutch, Vortex Oil Bath Air Cleaner, gasoline filter, instrument panel, oil gauge, ammeter, crank, instructions. Write for detailed descriptions of engines below, and of engines using other fuels. Allow about 30 days for shipment from Factory at Muskegon, Mich.

81-H.P.
$1075.00 Cash
$161 Down, $50 a Month
Write Us for Details

WISCONSIN Air-Cooled VE-4 Engines—20 H.P.

The Lightest, most Compact Engine in this power range! You'd pay $100 more elsewhere for a cumbersome, water-cooled engine of the same horsepower. Made by Wisconsin—sold only by Wards—the VE-4 is the most efficient bundle of power you can buy—whether for powering combines, haybalers, generators, pumps, sawmills, hoists, etc.

V-Type Construction—Keeps height and length at absolute minimum. Shorter crankcase and crankshaft mean greater strength and longer life.

Positive Air-Cooling—Heavy-duty flywheel with deep-cast blades forces blast of air around and across cylinders and heads. Perfect cooling at high temperatures.

Automatic Lubrication—Entirely self-contained. No grease cups or oil fittings.

Dynamically Balanced Crankshaft—Long connecting rods and lightweight pistons assure smooth running. Mounted on Timken Roller Bearings, front and rear.

Mechanical Flyball-Type Governor—Maintains even speed. Manual control for quick, easy speed adjustment. Renewable valve-seat inserts. Has Wico Magneto with impulse coupling, float feed carburetor with automatic choke, Oil Bath Air Cleaner, oil filter, Tillotson gasoline filter, spark plugs, and crank. Unit includes housing with sides as shown in small picture. See table below for specifications and prices. Allow about 30 days for shipment from Factory near Milwaukee, Wisconsin.

20-H.P.
$189.50 Cash
$20.00 Down, $12 a Month
See Inside Back Cover

Wards Can Furnish Any Type of Industrial Engine Made—From 6 to 148-H.P.

You can buy all of the best-known names in industrial engines at Wards—get smooth, efficient, economical performance—and save money besides! No matter what your power requirement is, Wards have an engine that will meet it!

If you don't see the engine you need, on this page, just write to us. We will quote you prices on power units for almost any purpose—including those for replacement on tractors, trucks, combines, farm machinery, etc.—equipped to your own specifications!

Wards have over 90 basic engines (besides Diesels), ranging from 6 to 148 H.P.—available *with* or *without* Clutches, Gear Reductions, Electric Starting Equipment, Radiators, Fuel Tanks, Ignition, Controls, and Kerosene, Fuel Oil, or Natural Gas Equipment. When you write for information, address your letter to Farm Equipment Dept. Be sure to state H.P. required, purpose for which engine is to be used, speed of machine to be driven, and type of fuel to be used.

IMPORTANT—About H.P. Ratings

Wards H.P. ratings are for *Brake Horsepower* (actual net usable power) and do not compare with auto engine H.P. ratings, which are developed on bare engines without fan, radiator or load, running at wide open throttle. On a similar basis, the 20-H.P. Wisconsin VE-4 at the left would be rated at about 54-horsepower—or 170% higher!



Hercules and Atlas Gasoline and Diesel Engines

5 TO 148 H.P.

Wards Industrial Engine Line includes **Diesels** (Made by Hercules and Atlas) with horsepowers ranging from 5 to 139, and Gasoline-Operated Engines (Made by Hercules) with horsepowers ranging from 12½ to 148. Write to Wards Farm Equipment Department for complete specifications, prices, and Time Payment Terms. Be sure to state the required horsepower, the purpose for which engine is needed, the speed of machine to be driven, and the type of fuel to be used.

SPECIFICATIONS AND PRICES OF CONTINENTAL INDUSTRIAL ENGINES ABOVE

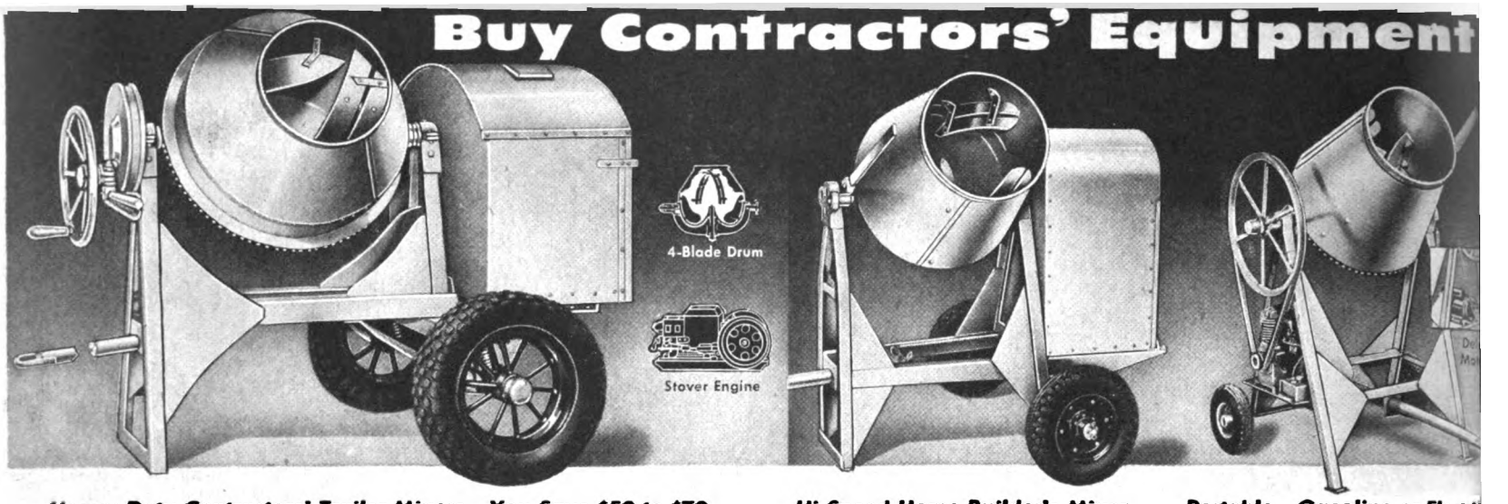
Article Number	Rated H.P. Size	Mfrs. Model No.	Net wt. of Engine	Complete Power Unit with Engine Housing (Pictured) Price	Ship. wt.	Power Unit Without Engine Housing Price	Ship. wt.	Add for Elect. Starter (Less Magneto) Price	Ship. wt.	H.P. Produced at Various R.P.M. Minimum	Rated	Maximum	Specifications of Engines: No. Cyl.	Bore, In.	Stroke In.	Pulley Diam.	Pulley Lgth.	Shaft Key Size In.	Fuel Cap Gal.	Oil Cap. Pints	Height Inches	Maximum Overall Size Inches
287A2921	15	Y91	508 lbs.	$310.00	720 lbs.	$289.50	650 lbs.	$22.00	25 lbs.	7½ at 900	15 at 1750	18¼ at 2400	4	2⅞	3½	17/16	3½	⅜	5¼	7	33 1/16	19 x45 3/16
287A2922	28	F162	690 lbs.	360.00	900 lbs.	339.50	825 lbs.	22.00	25 lbs.	15 at 900	28 at 1750	34¼ at 2400	4	3 7/16	4⅜	17/16	3½	⅜	11	8	39⅛	21 7/16 x49 3/16
287A2923	36	F218	960 lbs.	413.50	1175 lbs.	392.50	1100 lbs.	22.00	25 lbs.	18½ at 900	36 at 1750	45 at 2400	6	3¼	4⅜	17/16	3½	⅜	18	10	40 5/16	23 x56
287A2924	48	E611	1450 lbs.	730.00	1750 lbs.	706.50	1650 lbs.	28.00	30 lbs.	29 at 900	48 at 2400	59 at 2400	6	3⅞	4½	2¼	4⅞	⅝	22	16	56⅞	29 x70 13/16
287A2925	62	E613	1475 lbs.	754.50	1775 lbs.	731.00	1675 lbs.	28.00	30 lbs.	35 at 900	62 at 1750	68 at 2400	6	4¼	4½	2¼	4⅞	⅝	22	16	56⅞	29 x70 13/16
287A2926	81	33R	2420 lbs.	1075.00	2970 lbs.	1035.00	2720 lbs.	28.00	30 lbs.	45 at 900	81 at 1750	92 at 2400	6	4½	5¼	2¼	5	⅝	25	20	57	35½ x79 5/32
Continental Engine Equipped For Fuel Oil Operation (Write For Free Circular)																						
287A2927	71	33RO	2420 lbs.	1175.00	2970 lbs.	1125.00	2720 lbs.	28.00	30 lbs.	40 at 900	71 at 1750	81 at 2400	6	4½	5¼	2¼	5	⅝	25	20	57	35½ x79 5/32

SPECIFICATIONS AND PRICES OF WISCONSIN VE-4 ENGINES ABOVE

287A2781	20	VE-4	315 lbs.	$189.50	345 lbs.			$50.00	30 lbs.	11 at 1200	20 at 2200	22 at 2600	4	3	3¼	1 3/16	5¼	⅜	6	8	32⅝	22½ x32⅛
287A2780—Exactly the same as 287 A 2781 with the addition of a Twin-Disc Clutch. Pulley shaft is 3½ inches long. Ship. wt. 420 lbs. $226.50																						

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Buy Contractors' Equipment



Heavy-Duty Contractors' Trailer Mixers—You Save $50 to $70

$198.50 Cash
$12 Mo., See Back Cover

Batch-a-Minute—Whether you're mixing concrete or cold patch . . . doing general construction or finishing work . . . Wards Heavy-Duty Trailer Mixers give you big capacity output that means extra profits. All sizes finish a batch of concrete a minute . . . even the smallest delivers up to 1200 cu. ft. a day! And they're smoother running than ordinary mixers because they have Timken Roller Bearing drives and improved finger-tip control tilting mechanisms.

Better Mix—4 Mixing Blades (2 shovel and 2 divided cutting blades) put concrete through 4 mixing actions every time drum revolves. You get a real 4-WAY MIX . . . not a separation of cement and aggregate as with ordinary mixers having only 2 or 3 blades.

Extra-Heavy Drum—12-ga. steel. Drum gear (cast in 1 piece with semi-steel bowl) meshes evenly with pinion drive. This perfect meshing plus friction-free Timken bearings on drive shaft and yoke assure even power transmission. Drum balanced on heavy, 1-piece semi-steel I-beam yoke. Alemite-Zerk fittings.

Finger-Tip Tilt Control—Internal gear mechanism is fully enclosed. Tilt wheel turns in same direction as drum for dumping. Friction brake holds drum in any position for discharging directly into forms. Drum loads from either side.

Power Transmission is by machine cut sprocket connected to shaft with steel roller chain.

Stover Engine—1-cyl., water cooled. Low speed (500 R.P.M.) assures trouble-free service. Dust-proof, waterproof, lockable steel housing.

Electro-Welded Frame—Chassis of rigid 3 by 2 by ¼-in. angles; drum frame of 2 by 2 by ¼-in. angles. Adjustable 31-in. steel tow bar.

Timken Bearing Wheels—Enclosed, spring-type shock absorbers. Drop center rims with 5.25x16 in. Power-Grip tires and tubes (Also sold without tires—use old 5.25, 5.50, or 6.00-16 tires.) Mixer enameled orange. Also sold on steel wheels, or skids —SEND FOR FREE BOOK on opposite page. **Shipped from** near Milwaukee, Wis. in 18 days extra.

Article Number	Cu. Ft. Mix. Wet	Cu. Ft. Mix. Dry	Drum Size Diam.	Drum Size Ht.	In. Long	In. High	In. Wide	Eng. H.P.	Wt. Lbs.	With Tires	Without Tires
287 A 5880	3	4	25 in.	28 in.	69	48	48	1½	1000	$198.50	$183.50
287 A 5881	3½	5	28 in.	28 in.	72	60	48	2	1150	229.50	214.50
287 A 6476	5	7½	38 in.	32 in.	96	72	48	3½	1850	349.50	334.50

Drum capacities of all Ward Mixers are conservatively rated for most efficient mixing. Drums actually hold up to 100% more mix than rated!

Hi-Speed Home Builder's Mixer

$114.50 Cash
$9 Mo., See Back Cover

Designed for the home builder who wants the batch-a-minute output and 4-way mix of Wards Heavy-Duty Mixers at low initial cost. It's compact, light weight. On roller bearing pneumatic tired wheels, tows at 25 to 30 miles per hour.

Efficient 4-Way Mix—Handles concrete, mortar, feed, fertilizer. Discharges directly into forms.

18-Ga. Steel Drum—Blades same as on Stationary Mixer at top of opposite page. Gear is cast integral —meshes smoothly with drive pinion. Extra long, dirtproof bearings—heavy cast iron yoke. 2½-cu. ft. size has tilt lever, 3-4-ft. size has crank operated tilt device. 16 and 17-in. drum openings.

Ward-Lauson Engine—⅝-H.P. on 2½-3-ft. size, 1-H.P. on 3-4-ft. size. Efficient V-drive (belt included) —in lockable steel housing. Electro-welded angle frame. Adjustable tow bar (slides out of way under mixer). 4.00 by 8-in. pneumatic tires, disc wheels. Enameled orange. **Shipped from** Factory near Milwaukee, Wis. in about 14 days.

Article Number	Cap. Feet Wet	Cap. Feet Dry	In. Long	In. Wide	Ht. In.	Ship. Wt. Lbs.	Cash Price
287 A 6471	2½	3	46	46	56	350	$114.50
287 A 6472	3	4	50	48	60	510	149.50

Portable—Gasoline or Electri

$69.95 Cash
$7 Mo., See Back Cover

Best for finishing work on ... struction jobs because you ... back it into narrow ... where larger mixers can't ... Light wt. . . . easy to push ... tow. 2–2½-ft. size turns out ... much as 500 cu. ft. of concr ... a day . . . every batch mixed the 4-blade w... **4-Way Mix**—Same drum, blades, and 1-pc. ... as on Home Builder's Mixer at left. V-belt dr... and smooth meshing cast gears. Loads or ... charges from either side. Discharge ht. 28 ...

Roller Bearing Wheels—10 by 2¾-in. pn... matic tires permit high-speed hauling. Adjusta... tow bar. Overall: 46 in. high, 54 in. long, 4... wide. Orange enameled. For sheet steel belt gu... (not shown) specify on order, add $2.50. Shipp... from near Milwaukee, Wis. in about 14 days.

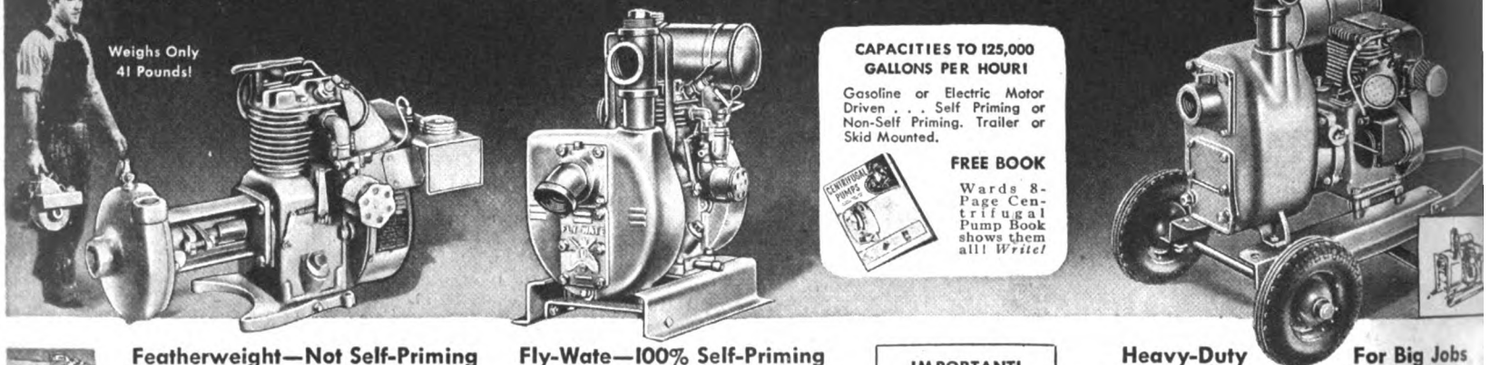
287 A 5876—2–2½-ft. Size. ¾-H.P. Ward-Laus... air cooled engine. Ship. wt. 240 lbs. ..... $69.

287 A 5877—2–2½-ft. size with ½-H.P. De... Electric Motor with Thermotron overload pr... tector (motor *can't* burn out). Wt. 230 lbs. $79.

287 A 5878—2–2½-ft. mixer only. State speed a... pulley shaft diam. of your engine or mot... Requires ½ to ⅝-H.P. Wt. 200 lbs. ..... $49.

287 A 6473—2½–3-ft. Size. ⅝-H.P. Ward-La... son engine. 4.00x8-in. tires. Wt. 300 lbs. ... $89.

WARDS CENTRIFUGAL PUMPS . . . 3,000 to 84,000 Gallons Per Hour!



CAPACITIES TO 125,000 GALLONS PER HOUR!

Gasoline or Electric Motor Driven . . . Self Priming or Non-Self Priming. Trailer or Skid Mounted.

FREE BOOK

Wards 8-Page Centrifugal Pump Book shows them all! *Write!*


Dewatering


Sprinkling


Filling Tanks

Featherweight—Not Self-Priming

$46.95 Cash
$5 Mo., See Back Cover

So light a 12-year-old boy can carry it. Farmers and resort owners use it to water lawns, fill tanks, dewater boats or with driven well point for water supply, etc. Has 1-in. suction, ¾-in. discharge.

3000-Gal. Per Hour Capacity—Pumps up to 50 gal. per minute—run it for only about 1c an hour.

Long-Life Construction—5-blade trash-type impeller bolted direct to engine crankshaft. Stuffing box on large bronze bushings easy to repack. Rigid connecting casting gives permanent alignment. Handy drain plug and priming valve.

60-ft. Head—With pump at Water level it will discharge water 60 ft. above pump. Maximum lift, (height of pump above water) 25 feet. ⅝-H.P. Ward-Lauson engine (with rope starter) has V-pulley for other uses. **Mailed from** Stock in Baltimore or Albany. Ship. wts. 49, 16 lbs.

487 A 5063—Complete as pictured above . . . $46.95

487 A 5062—Pump only. Cast base, 3-in. V-Pulley. Run at 2400 R.P.M. Use ⅓ to 1-H.P. . $12.95

Fly-Wate—100% Self-Priming

$84.50 Cash
$7 Mo., See Back Cover

Has lightweight semi-steel case —weighs only 75 lbs. net! Compact, too . . . only 19 in. long, 14 in. wide, 17 in. high. Fits easily into narrow excavations.

4500-Gal. Per Hour Capacity—(operating at a 5-ft. head) . . . handles even more jobs than Featherweight at left. Run it all day for as little as 15c.

100% Self-Priming—Prime it once and forget about it. No time lost in repriming!

Strongly Built—Case has rounded walls, big priming chamber—no obstructions to trap dirt. 3-blade open impeller is adjustable for wear—handles big amount of solids. Direct connected to 1-H.P. Ward-Lauson engine. Positive metal to metal grease seal . . . automatic grease cup feeds into extra big grease reservoir. Max. total head 70 ft.; max. lift, 25 ft. 1½-in. suction-discharge. On skids. With strainer, lifting bail. **Shipped from Factory** near Milwaukee, Wis. in about 7 days.

287 A 5064—Complete. Ship. wt. 105 lbs. $84.50

IMPORTANT!

You can use a Centrifugal Pump for moving large volumes of water where suction lift (ht. of pump above water) does not exceed 25 ft.

The greater the total head at which pump operates (suction lift plus vertical discharge plus pipe friction) the smaller is its output in gals. per minute. Order a pump large enough to deliver amount of water you want under conditions you will use it. Send a sketch of installation, for help in selecting a pump. For more data, send for FREE BOOK.

Heavy-Duty For Big Jobs

$154.50 Cash
$10 Mo., See Back Cover

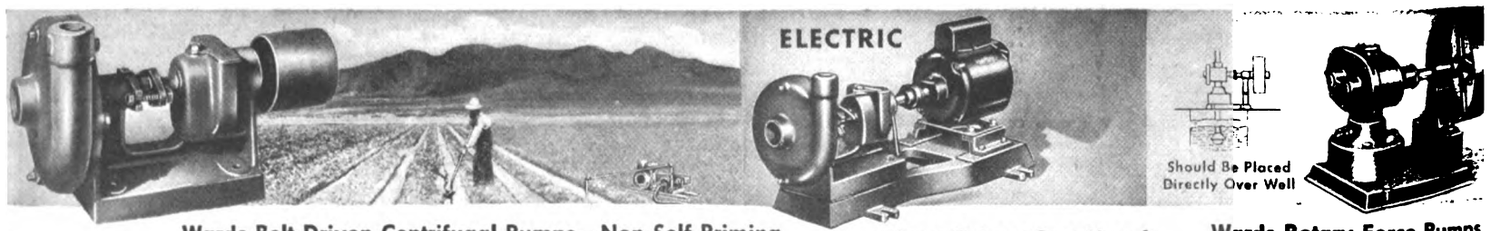
9600 to 18,000 Gals. Per Hour—War... prices save you up to $50. Use these heav... duty Pumps for big capacity dewatering ... low cost. They're light in weight, comp... . . . easy to haul from job to job.

100% Self-Priming—Always ready to ... to work! Fill it once . . . no repriming needed.

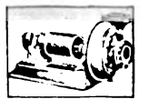
Heavy Cast Case—1-piece semi-steel with rounded, ... cleaning walls. Directly connected to Ward-Wisconsin ... cooled engine by rigid housing. With adjustable 3-bl... impeller, positive grease seal with automatic grease c... efficient basket-type strainer . . . all described in Fr... CENTRIFUGAL PUMP BOOK. Max. head, 70 ft.; max. lift, ... ft. With lifting bail. Capacities are at 5-ft. lift, 25-ft. he... **Shipped from** near Milwaukee, Wis. in about 14 days.

287 A 5066—**Up to 9600 Gals. Per Hour**—2-in. suction, ... charge. 2¾-H.P. engine. Ship. wt. 230 lbs.
On Trailer (10 by 2¾-in. Riverside tires, tubes) $154
On Steel Skids (See picture above at right) 144

287 A 5282—**Up to 18,000 Gals. Per Hour.** 3-in. suct... discharge. 6-H.P. engine. Ship. wt. 410 lbs. $234
On Trailer (4.00x8-in. tires, tubes) 214
On Steel Skids (See picture above at right) 214



Wards Belt-Driven Centrifugal Pumps—Non-Self Priming


Center Mounted Flat Pulley (on 4 in. and larger).

$15.95 Cash
$2.50 a Month

Belt one of these Pumps to your engine or motor—irrigate fields, pump out pits, etc.

Heavy Cast Iron Construction. 1-piece cast Pump Case has smoothly rounded walls. Deep stuffing boxes have liberal room for repacking. Efficient enclosed impeller runs on cold rolled steel shaft. Self-lubricating Oilite Bearing on pedestal—oil-less lead bronze bearing on impeller end of shaft. 2½-in. and larger sizes have flanged suction and discharge openings; others threaded. Capacities vary with H.P. used, at a given head. Capacity of any pump below can be increased by using more H.P. and increasing the R.P.M. **State suction and discharge size and whether or not pulley is wanted with pump.**

287 A 5201—Pumps without pulley **shipped from** near Ft. Madison, Ia., in about 7 days, 4-in. and larger in about 20 days. All **others** shipped from Stock.

Discharge	Suction	Gal. per Minute	Shaft Diam.	At 10 Ft. Head H.P.	At 10 Ft. Head R.P.M.	At 40-ft. Head H.P.	At 40-ft. Head R.P.M.	At 65-ft. Head H.P.	At 65-ft. Head R.P.M.	Flat Pulley Diam.	Flat Pulley Face	Wt. Lbs.	Without Pulley	With Flat Face Pulley
¾ in.	1 in.	5– 20	¾ in.	⅛ – ⅓	950	¾ – 1	1856	1 – 1½	2350	3¼ in.	3 in	40	$14.45	$15.95
1 in.	1¼ in.	20– 30	¾ in.	⅓ – ½	950	¾ – 1	1836	1½ – 2	2335	3¾ in.	3 in	45	17.45	18.95
1½ in.	2 in.	40– 80	1 in.	¾ – 1½	1042	1 – 2½	1888	1½ – 3	2196	4 in.	4 in	65	26.75	28.95
2 in	2½ in	100– 160	1 in.	1½ – 2½	915	2½ – 4	1660	3½ – 5½	1930	4 in.	4 in	85	32.20	34.95
2½ in.	3 in.	180– 250	1½ in.	2½ – 4	801	4¾ – 7	1468	7 – 9	1708	6 in	6 in	175	$7.50	64.50
3 in.	4 in.	280– 340	1¼ in.	3½ – 4¾	732	7 – 9	1325	10 –12	1541	7 in	6 in	205	71.50	79.50
4 in	5 in.	500– 650	.....	5 – 7	608	11 –14	1100	15 –20	1281	8 in.	8 in	338	.....	96.50
5 in	6 in.	700 850	.....	6 – 7	562	13 –16	1018	20 –23	1184	10 in.	10 in	515	.....	124.50
6 in	8 in.	1000–1400	.....	17 –10	575	17 –24	1040	26 –36	1210	10 in.	10 in	520	.....	144.50

New Motor-Driven Centrifugals

$47.95 Cash
$5 a Month

Laundries, dairies, farmers, use these compact, self-contained electric powered Pumps to circulate water quickly, at low cost. Quiet . . . smooth running. Install one wherever power is available . . . to increase water pressure in buildings, for sprinkling, etc.

Non-Self Priming—Construction same as on pumps at left. Oilite pedestal bearing, enclosed semi-steel impeller. Cast iron base with bolt holes. Flexible coupled to motor.

Delco Motor—110–220-volt, 60-cycle A.C. (¼-H.P. is 110 volt). ¼ and ½-H.P. are capacitor-type with Thermotron overload switch (motor *can't* burn out) ¾-H.P. motor is Repulsion-Induction type. Pumps have 1-in. suction, ¾-in. discharge. **Shipped from Factory** near Fort Madison, Iowa in about 14 days. Terms, Inside Back Cover.

Article Number	G.P.M. 15 Ft. Head	H.P.	G.P.M. Max. Head	Max. Head Ft.	Ship. Wt. Lbs.	Price Complete
287 A 5197	30	½	30	15	112	$47.95
287 A 5198	45	½	35	25	119	57.95
287 A 5199	50	¾	30	35	131	67.95

Wards Rotary Force Pumps

$20.50 Cash
$3.50 a Month

Pumps a stream of water 150 f... high or 200 feet horizontally ... throws a solid stream 20 feet. ... it for pumping clean water in c... storage plants, factories, for ... fighting, or for pumping into overhead tanks ... gravity water systems. Not for sandy water ...

Pump sturdily built of cast iron . . . has ... chine cut, close meshing steel gears. 1-inch co... rolled shaft has double bearing supports. O... board bearing babbitted. Face plate remova... for cleanout. Cast base with bolt holes. Pu... pump directly over water source for best op... ation. 10x3-in. flat pulley (or use with slow-spe... engines, or 20-in. V-pulley for high speed engi... or motors (1750–2300 R. P. M.)

State choice of pulley. Pulley should turn ... 200 to 300 R.P.M. If suction lift is over 15 fe... use a foot valve (see index). Ship. wts. 85 a... 105 lbs. **Shipped from Stock** in Baltimore ... Albany. Terms, Inside Back Cover.

Article Numoer	Suction, Discharge	At 100-ft. Head Per Hr.	At 100-ft. Head H.P.	Flat Pulley	V-Pulley
187A5202	1¼-in.	1860 gal.	½	$20.50	$24.5
187A5203	1½-in.	3000 gal.	¾	27.50	31.5

If Pump is to be Driven With V-Belt, Order Pump Without Pulley and See Page 1111 for V-Pulley of Correct Diam. and Correct Bore to Fit Shaft Diam. Shown Above.

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on Credit

Pay by the Month Out of Profit!



GIVEN WITH EVERY MIXER!

Big 72-Page Farm Construction Book

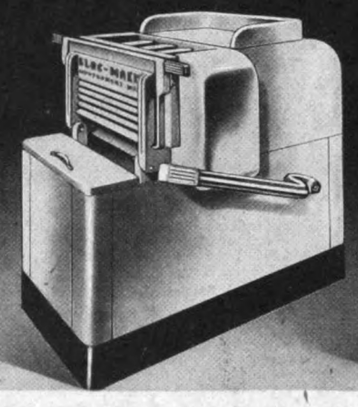


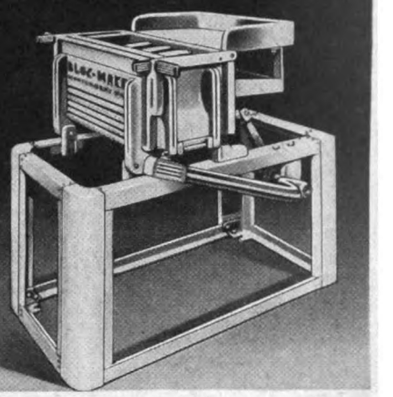


4-Blade Drum



High-Speed Concrete Block Machines





Improved 4-Blade Stationary Mixers—For Concrete, Feed

ctually cost you less than most ordinary ationary mixers having only two or three ades, yet Wards Stationary Mixers are edier, more thorough, more efficient . . . rn out smoother batches of concrete! hat's because they have the same Four- ade construction as Wards Heavy-Duty ixers . . . give every batch the same supe- or 4-Way Mix! The 2-2½-cubic foot odel mixes up to 20 cubic yards of con- ete per day . . . turns out Batch-a-Minute erformance easily. And you can use any of ese sizes for mixing feed, mortar, ferti- er, or industrial powders as well.

lequire Little Power—Easy to Run by and—Heavy-duty 18-ga. steel drums on ards Mixers are carefully balanced to re- uce friction. 2 and 3-ft. sizes require only ½ to ⅝-H.P.; 4-ft. only ¾ to 1-H.P. Drums re mounted on heavy, 1-piece cast semi- teel yokes, equipped with extra long, dirt- roof bearings . . . grease cup lubricated. Heavy drum gear (cast integrally) meshes erfectly with pinion drive. Drum can be uickly adjusted to any of 3 mixing posi- ions, loads or discharges from either side. rum discharges the mix directly into forms r a wheelbarrow from a height of 26 inches.

Rigid 1-Piece Frame—Frame is made of electro-welded angles, securely bolted to hardwood skids. Orange enameled.

Mixers operate with gasoline engine, electric motor, or hand crank furnished. With 12 by 3 or 20 by 2¼-in. flat pulley or 20-in. V-pulley (for ½ or 2½-in. V-belt). No hand crank on V-Pulley model. Use 12-in. pulley with low speed engines (350–600 R.P.M.); use 20-in. with elec. motors or air cooled engines. (1750–2300 R.P.M.) **State diam. and type of pulley wanted** (should turn at 175–200 R.P.M.) **Shipped from** near Milwaukee, Wis. in about 12 days.

$24.95 Cash

$3.50 Mo., See Back Cover

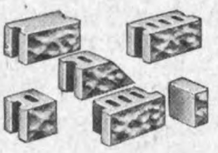
Cu. Ft. Cap.		Drum Opening	Overall Size		Article Number	Ship. wt. Lbs.	With 12 in. Flat Pulley	With 20-in. Pulley
Wet	Dry		Wide In.	Ht. In.				
2	2½	15 in.	36	48	287A5882	185	$24.95	$26.95
3	4	16 in.	40	52	287A5883	235	34.95	36.95
4	5½	17 in.	44	56	287A5884	305	44.95	46.95

Portable Mixer (See small picture above). Same as above but mounted on two 10 by 2-inch cast iron wheels, Handy welded towing ring makes it easy to push or tow around—mix concrete right where it's needed.

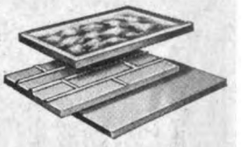
2	2½	15 in.	36	48	287A5846	210	$27.95	$29.95
3	3	16 in.	40	52	287A5841	260	37.95	39.95
4	5½	17 in.	44	56	287A5842	330	47.95	49.95



Makes Six Kinds of Blocks!



Full blocks, ½-blocks, ¼-blocks, gable blocks, or joist blocks . . . Bloc-Maker handles them all. Makes them in any of 3 face designs at right . . . of solid concrete, or cored (to save materials, give 33⅓% insulating air space). Supreme Quality (when run by 2 men) turns out up to 400 per day; Superior, 250. Full blocks are 8x8x16 in.



Wards Supreme Quality Bloc-Maker

Contractors! Builders! Eliminate costly rejections that cut into your concrete block profits—get uniform, evenly tamped blocks every time with a Bloc-Maker. We've redesigned it—**streamlined** it for faster operating—built in an Exclusive 2-Stage Lever Control that assures your making stronger, more uniform blocks than with ordinary machines costing dollars more elsewhere!

Improved 2-Stage Lever Control—When you pull the lever part-way down the end plates automatically close and mold box locks. You fill box up to level of core openings, tamp the material into the face plate, then pull lever rest of way down to place cores. (*Lever action on ordinary machines closes end gates, places cores at same time. This prevents your tamping mix thoroughly . . . cores are in way.*) Fill rest of form and tamp. After striking off simply raise lever to pull cores, unlock box . . . take out block.

Heavy-Duty Construction—Built of cast iron and heavy-gauge sheet steel . . . strongly bolted, rigidly braced. Bearing surfaces machined where necessary, to reduce friction. Handsome Gray enamel finish, red and black trim.

Dust Protected—Heavy sheet steel skirt and hood protects working parts from dust, moisture. Easy to clean.

Handy Tool Compartment—Built right into front of machine. Tools and plates always instantly accessible.

37 in. long. 28 in. wide, 31 in. high overall. With parts at right. **State choice** of Rock, Plain, or Brick Design face and end plates. (Order additional sets of plates at right.) **Shipped from factory** near Milwaukee, Wis. in about 7 days.

$104.50 Cash

$8 Mo., See Back Cover

287 A 5894—Supreme Quality. Ship. wt. 452 lbs. . . . $104.50

Superior Quality Bloc-Maker

Turns out same quality concrete blocks as Supreme Quality Model . . . has same rigidly braced steel and iron construction, but without steel skirt, hood, or tool compartment. Easy-grip control lever places and pulls cores smoothly—end plates are locked and unlocked by hand. Smooth bearing surfaces. Gray enameled. Complete with parts below. **State choice** of Rock, Plain, or Brick Design face and end plates. (Order extra sets below). **Shipped from Factory** near Milwaukee, Wis. in about 7 days.

$71.50 Cash

$7 Mo., See Back Cover

287 A 5895—Ship. wt. 327 lbs. $71.50

Parts Given With Each Bloc-Maker. Face plate for whole blocks, face plate for 1 half-block or 2 quarter-blocks, 2 faced and 2 cored end plates, 2 dividing plates, 1 dividing plate for gable blocks, 2 joist block attachments, 3 core plugs for solid blocks, 3 cores, 1 sample wood pallet, 1 striker, 1 double end tamper. (Single core for making cored half-blocks also included with Supreme Quality model.)

Extra Face and End Plates—State choice of Plain, Rock, or Brick Design and whether for Supreme or Superior Machine.

287 A 5896—Wt. 38 lbs. Per Set. . . $13.50

3-Ft. Batch Mixer—For Plaster, Mortar, Dry-Mix Concrete

All-Purpose! Especially designed for mixing semi-dry concrete for building blocks, silo blocks, fence posts, drain tile, etc. Use it also for plaster and mortar . . . mixes each batch so thoroughly that even colored plaster comes out uniform every time! 3-cu. ft. cap.

$69.95 Cash

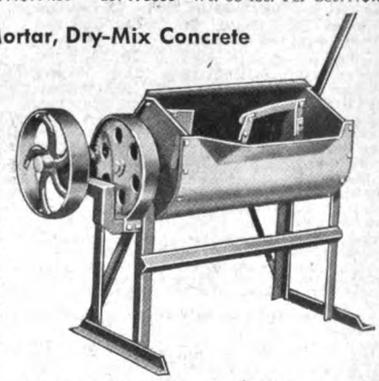
$7 Mo., See Back Cover

High-Carbon Steel Blades give mixture two cutting and two kneading actions at every revolution. Blades fit closely—clean out drum thoroughly when batch is discharged. Drum shaft is cold rolled steel . . . turns on babbitted bearings.

Easy-Tilt Flared Drum—Heavy sheet steel, cast iron ends. Drum opening flared for quick discharge into a wheelbarrow. Inside drum diam. 18 in., length, 33 in. Drum gears are cast iron—mesh evenly. Requires 1½ to 2-H.P. pulley should turn at 185 R.P.M. Angle steel frame, hardwood skids. Overall: 50 in. long, 32 in. wide, 36 in. high. **Shipped from** near Milwaukee, Wis. in about 12 days. Ship. wt. 400 lbs.

287 A 5838—With 18x3-in. flat pulley. . . . $69.95

287 A 5840—With 24-in. V-pulley. For high speed engines or elec. motors. $69.95



Low-Priced 3-Blade Mixer

econd only to Wards 4-Blade Machines above in ixing efficiency! Sturdy 8-gauge steel drum has three large, 1-piece steel mixing blades . . . handles ull 2–2½-cubic foot batch of concrete r feed. Drum is balanced on cast iron oke—loads or discharges from either ide. Integrally cast drum gear meshes venly with pinion drive—both turn on mooth lubricated cast iron bearings.

Electro-Welded Frame—Strong angle teels, well braced. (Does not have ood skids.) 12x3-in. flat pulley should urn at 175–200 R.P.M. Run it with and crank furnished, or with low-speed asoline engine. 15-in. drum opening. Discharge ht., 26 in. **Shipped from** ear Milwaukee, Wis. in 12 days.

287 A 5847—Ship. wt. 160 lbs. . $19.95

Only $2.50 down will deliver a Ward 3-Blade Mixer to you. See Back Cover.

$19.95 Cash

$3 Mo., See Back Cover

Batch Hopper Trailer Mixer—Saves Time

Load the next batch while the machine is mixing or discharging—pour as much as 30 to 40% more concrete per day! You can do that with Wards 3½–5½-cubic foot Batch Hopper Mixer. Gives you power loader speed without paying the extra cost of a power loader . . . meets all U.S. Government specifications for capacity—handles 10% overload.

Non-Tilt Drum—60-Second Mix—Revolving 12-ga. steel drum thoroughly mixes and remixes a batch-a-minute. Auto-width, end discharge—mounted on pneumatic-tired steel wheels. Timken bearings, roller chain drive, machine-cut gears, electro-welded steel frame, 2¾-H.P. Ward-Wisconsin engine . . . described in Wards FREE CONCRETE MIXER BOOK! **Shipped from** near Milwaukee, Wis. in about 30 days.

287 A 6489—Batch Hopper Mixer. Shipping weight 1400 pounds. $379.50

Batch Hopper Mixer above is just one of Wards complete line of Heavy-Duty Contractors' Mixers . . . all fully described in Wards FREE CONCRETE MIXER BOOK. *Shows Power Loader mixers, End Discharge mixers, Tilting and Non-Tilt Drum models . . . capacities up to 10 cu. ft. . . . all at big savings! Also gives more information about Wards Block Machines.* WRITE FOR IT!

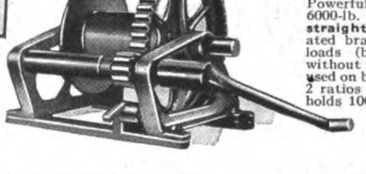
$379.50 Cash

$20 Mo., See Back Cover



FREE BOOKS!

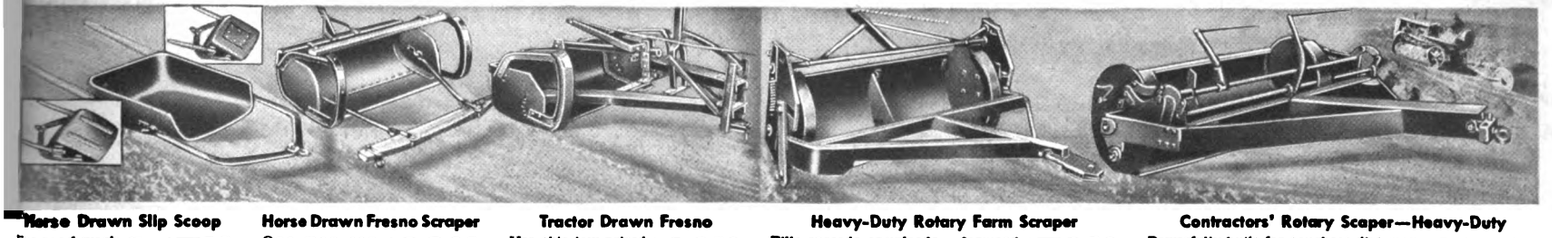
Save money at Wards on *Limestone Pulverizers* and *Stump Pullers*. Send for Free Books!



2-Speed Winch—For Pulling, Lifting

Powerful—50-lb. crank pressure moves a 6000-lb. rolling load, or lifts a 2400-lb. load **straight up!** Specially constructed hand operated brake on drum permits lowering light loads (boat anchors, light elevators, etc.) without unwinding the winch by hand. Widely used on boats, in mines, in mills. Malleable iron. 2 ratios (5⅗ to 1 or 1 to 1). 3½-in. drum holds 100 ft. of ⅜-inch cable (not included). **Shipped from Factory** near Streator, Illinois in about 7 days.

287 A 6589—Ship. wt. 52 lbs. **$22.95**



Horse Drawn Slip Scoop

For road work, excavating, etc. Heavy 9-gauge steel bowl, reinforced by top flange, is correctly shaped and balanced for entering the ground. Forged steel bail. Hardwood handles are shaped for comfortable grip. **Double-Runner type** (see small picture at left above) has two hardened steel runners riveted on. **Double-Bottom type** (small picture above, right) has big tough steel plate riveted on at point of greatest wear. **State type of bottom wanted.** Ship. wts. 80, 90, and 100 lbs. **Shipped from** near Dayton, Ohio in about 10 days.

$7.55 Each

2-Runner

Article Number	Cu. Ft.	Two Runners	Bottom Plate
287A6280	3	$7.55	$8.10
287A6281	5	8.10	8.85
287A6282	7	8.85	9.25

Horse Drawn Fresno Scraper

One man can handle 150–250 cu. yds. a day! 12x3¼-in. renewable hard manganese steel cutting bit. Runners are 1½ by ⅜-in. angles with 3 by ½-inch shoes. Steel plates riveted on back where wear is greatest. Roll flange top prevents bending. Easily adjusted—distributes load evenly or dumps it in one place. 8 and 10-ft. capacity sizes use 2 horses; 12-ft. uses 3; 17 ft., 4. Furnished with evener (shown) or steel bail (not shown)—**State choice.** Ship. wts. 255, 272, 312, and 345 lbs. **Shipped from** near Dayton, Ohio in about 10 days.

$23.95 Cash

$3.50 a Month

Article No.	Width	Cap.	Cash
287A6283	3 -ft.	8 cu. ft.	$23.95
287A6284	3½ -ft.	10 cu. ft.	24.95
287A6285	4 -ft.	12 cu. ft.	26.10
287A6286	5 -ft.	17 cu. ft.	27.25

Tractor Drawn Fresno

Use this low priced big-capacity dirt mover with any farm tractor! You can control the dumping and loading levers from the tractor seat . . . no need to get off. After dumping load, simply back up the tractor to turn bowl upright for next load. Scraper bowl is ⅝-in. steel with replaceable manganese steel cutting bit. ⅝-in. steel runners, 3 by ½-in. shoes; 2½ by 2½ by ⅜-in. angle draw bars; 1¾ by 1¾ by ¼-in. runner angles. Buy either size on Time Payments, pay for it by the month—see Inside Back Cover. **Shipped from Factory** near Dayton, Ohio in about 10 days. Freight rates, back of book.

$66.50 Cash

$7 a Month

287 A 6292—4-ft. bowl. 14-cubic foot capacity. Shipping wt. 410 lbs. $66.50

287 A 6293—5-ft. bowl. 18-cubic foot capacity. Shipping weight 440 lbs. $71.50

Heavy-Duty Rotary Farm Scraper

Fills, spreads, or unloads . . . **forward or backward** . . . while tractor is in continuous motion—no stopping necessary. You control every operation with **one** rope to a patented roller action trip bar. Loading is entirely automatic—no levers necessary to force blade into the ground. Exclusive toggling mechanism instantly releases blade from ground when bowl is loaded. High-carbon steel blade on bottom of bowl cuts to desired depth . . . is **interchangeable** with bull-dozing blade on top of bowl. Scraper can be used behind any farm tractor (of h.p. recommended below for each size) for grading, bulldozing, etc. Bowl is high-carbon steel . . . all seams and joints electro-welded for extra strength without extra weight. I-beam steel draw bars, steel shoes, patented bulldozing clevis. **Shipped from** near Omaha, Nebraska in about 10 days. Terms, Inside Back Cover. Check tractor H. P. before ordering.

$73.50 Cash

$7 a Month

Article Number	Width	Bowl Diam.	Cap. Cu. ft.	Drawbar H.P. needed	Ship. Wt. lbs	Cash Price
287A6391	3-ft.	24 in.	9	10	400	$73.50
287A6392	4-ft.	24 in.	12	15 to 20	550	88.50
287A6393	5-ft.	24 in.	18	20 to 25	650	109.95
287A6394	6-ft.	30 in.	30	30	850	125.50

Contractors' Rotary Scaper—Heavy-Duty

Powerfully built for toughest dirt moving jobs! Use it on road work, for leveling and grading on general construction. Fills, hauls, dumps, and spreads while tractor is in continuous forward motion. Improved 2-lever LOAD CONTROL is rope operated from driver's seat . . . load is under absolute control at all times. Works in any kind of soil . . . takes shallow or heavy cuts and maintains them. Won't gouge or fail to cut. Bit immediately comes out of ground when loading lever is released.

Every inch of Wards Contractors' Scraper is heavy steel construction. Replaceable cutting bit. I-beam drawbar, heavy runner shoes. **Shipped from** near Dayton, Ohio in about 10 days. Terms, Back Cover.

$108.95 Cash

$8 a Month

Article Number	Bowl Width	Bowl Diam.	Cu. ft. Cap.	H.P. Needed	Ship. wt. Lbs.	Each
287 A 6275	5 ft.	20 in.	15	*	623	$108.95
287 A 6552	4 ft.	24 in.	12	10	725	130.00
287 A 6553	5 ft.	24 in.	15	15-up	805	140.00
287 A 6554	4 ft.	30 in.	16	15-up	1126	195.00
287 A 6555	5 ft.	30 in.	20	20-up	1247	215.00
287 A 6556	6 ft.	30 in.	27	30-up	1365	235.00

**Use this size with wheeled farm tractors.*

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Grind 25% Extra Profit FROM YOUR FEED CROPS



MORE EGGS

Poultrymen! . . . a Ward Hammermill will increase your profits with bigger egg production! Hens will lay better—chicks will grow faster if their feed mash is ground with a Ward Mill. Make your own mixed feeds—get the exact formula you want—save money!



MORE MILK

9.3% more milk! 5% more butterfat! These are the actual results made on experimental farms by feeding ground shelled corn instead of whole corn! You can get this bigger, more profitable milk yield, too . . . with a Ward Hammermill! Feed crops will go farther, last longer!

Agricultural Colleges Have Proved That It Pays to Grind All Feeds!

Increase egg production and chick growth! Get more milk—feed one cow in five free! Animals like ground feed better, eat it more thoroughly, digest it faster and more completely. Result is they utilize *all* food value from everything they eat—get full benefit from leaves, stalks, hulls, and grains . . . *and in less time.* There's nothing wasted with ground feeds—no stalks or stems to be pushed aside or pass through undigested; instead, every bit of the food is used. A Hammermill breaks up the hard, waxy, outer layer of shelled corn, making it far more digestible. No wonder actual tests have proved that it pays to grind all feed!

A Ward Mill Makes Its Own Monthly Payments

Increased milk and egg production, plus savings in feed will often run as high as $15 a month. One owner got 50 lbs. more milk per day from 30 head of Brown Swiss—on less feed—which paid for his mill in *60 days*! Why wait—see Inside Back Cover for Terms.



Powerful, Dynamically Balanced Rotor—made of heavy gauge steel plates, securely locked together to form one solid unit. Extra large in size to give hammers terrific striking force, even at relatively slow speeds. Every rotor is carefully balanced at factory to eliminate vibration, conserve power, and reduce strain on shaft and bearings.

Rotor Shaft is special analysis, heat treated, Cumberland steel—ground to micrometer accuracy. Famous Rockwood pulleys that are longer wearing—easier on belts.



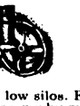
Heat Treated, Swinging Hammers—far superior to rigid hammers. The tremendous striking force shatters the grain in mid-air—*without heating!* Yet they *fold back* if tools or other unbreakable objects get into the grinding chamber—preventing punched out screens and sprung shafts. Four grinding edges. Case hardened and *self-sharpening* on Model E—especially heat treated and hardened on Models N, O, G, and J.



Heavy Duty Ball Bearings. The finest bearings money buy! Two rows of extra hard absorb end thrust, reduce wear shaft. Self-aligning on all electric models, which have Ball Bearings.

Alemite-Zerk Lubrication easily accessible fittings located at all where grease is required.

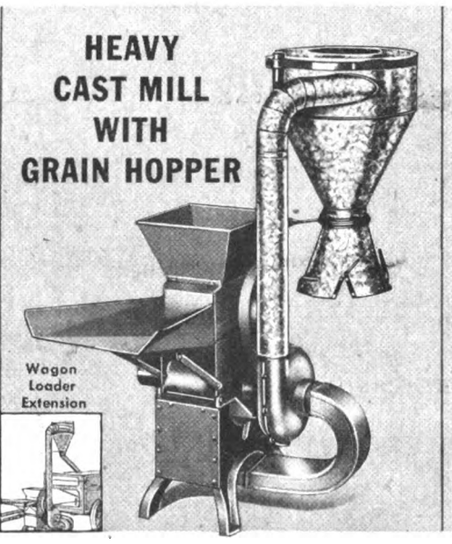
Screens of Heavy, Boiler Plate Steel—for years of service. You can change them jiffy—no wrenches or special tools needed screen included with each mill—order sizes below. See table or recommended

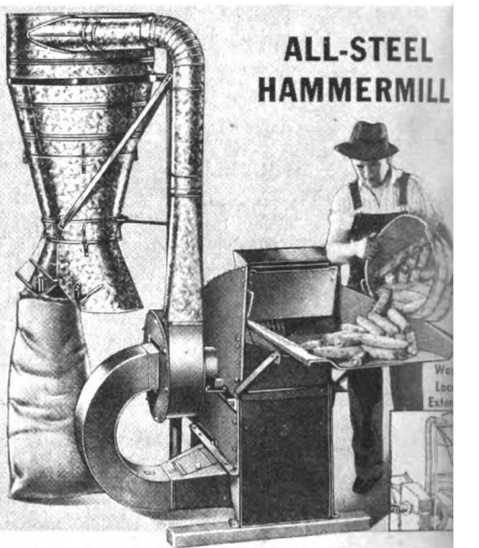


Powerful Blower Elevates Ft. Non-clogging! Positive extra capacity of the big produces a powerful blast which pulls the ground through the screen and elevates it 30 ft. or more to fill mows, or low silos. Extra size of Wards blower reason why mills can be fed faster without ging. Fan is mounted on rotor shaft.

Big, Galvanized Feed Collector—stu braced, heavily galvanized. Air vent in top







For Poultrymen—Dairy Farmers!

MODEL G

$45.95 CASH

Less Motor

$5 Dn., See Back Cover

- **Two sizes—900 or 1800 Lbs. Shelled Corn an Hour.**
- **Handles Small Grains, Corn Stalks with Ears, Wheat, Oats, and Alfalfa.**

Small in size—low in operating cost—but BIG in performance and convenience! Does the work of most expensive, big-capacity mills, because with the continuous bin arrangement (see book below) you can grind feed all day *without attention!* Think what you save in operating time—all you do is "push the button" and the mill does the rest. No need to pay 3 to 10c per 100 lbs. to have your feed ground—grind it yourself for as little as ½ cent per 100 lbs.!

Built to Last a Lifetime. Extra strong cast iron frame. Improved design keeps grain constantly in the path of the hammers.

Powerful Blower Elevates 30 Ft. Doubles the use of mill—you can elevate grain before and after it is ground. Elevates 50–60 bu. per hour.

Heavy Duty Electric Motor is 110–220 volt, 60 cycle, A.C. single phase, with Cutler-Hammer safety switch—motor *can't* burn out!

Specifications. Feed table 20 in. long. Regularly furnished with ¼-in. screen—if ⅛, 3/32, 1/16, 5/16, ⅜, ½, or ¾-in. screen is desired, **state choice. Shipped from Factory** near Dayton, Ohio, in 5 additional days.

Model G—Up to 900 Lbs. of Ear Corn per Hour

16 swinging hammers. Screen area, 100 sq. in. Throat opening 5 in. wide, 4 in. high. Overall height with bagger 58 in. Complete with Elec. motor, V-belt, and pulleys. **State voltage.**

287 A 3016—With 2-H.P. Motor. Ship. wt. 300 lbs. **$117.50**

M287 A 3056—Extra 3-in. pipe, per 4-ft. length. Ship. wt. 6 lbs. **50c**

Model J—Up to 1800 Lbs. of Ear Corn per Hour

24 swinging hammers. Screen area, 150 sq. in. Throat opening 8 in. wide, 6 in. high. Overall height with bagger 70 in. Complete with Elec. motor, V-belt, and pulleys. **State voltage—220 Volts recommended.**

287 A 3017—With 3-H.P. Motor. For light duty. Wt. 420 lbs. **$167.50**

287 A 3018—With 5-H.P. Motor. Ship. wt. 465 lbs. **227.50**

M287 A 3098—Extra 4-in. pipe, per 4-ft. length. Wt. 8 lbs. **75c**

NOTE: 3 and 5-H.P. Motors recommended for use with 220 volts only. Consult local power company before ordering.

Above Mills Without Motor

Equipped with pulley on mill for use with "B" size V-belt. See Page 1111 for belts and pulley to fit your engine or motor. Figure engine or motor pulley size to operate mill at 3500 R.P.M.

287 A 3067—Model G, with one 4-in. single groove V-pulley. Use 3-H.P. engine or 1½ or 2-H.P. electric motor. Wt. 140 lbs. **$45.95**

287 A 3069—Model J, with one 4-in. double groove V-pulley. Use 8-H.P. engine or 3 or 5-H.P. electric motor. Wt. 230 lbs. **$68.50**

NOTE: If mill is to be used with flat belt, extended shaft and outboard bearing must be used. Specify and add $16.25 (3x4½ in. flat pulley included.)

FREE BOOK Shows Continuous Bin Arrangements

Just push a button to start the mill—have it feed itself, elevate the ground grain, shut itself off when the job is finished! Wards Free Hammermill Book shows complete diagrams for building continuous bin and chute arrangements—also lists special attachments needed for completely automatic operation. *Write for this book today!*

Mix Your Own Prepared Feeds!

MODEL E

$86.50 CASH

$8 DOWN, $7 MONTH

See Inside Back Cover

- **Grinds up to 6500 lbs. of ear corn per hour.**
- **Grinds 2900 lbs. of oats—1700 lbs. alfalfa per hour.**
- **Requires 1-2-plow tractor.**

Stop buying expensive feed mixtures—the big 18½ by 18½-in. grain hopper on Model E lets you grind small grain and roughage *at the same time!* Saves you money—because you turn low cost, home grown feed crops into high-priced prepared mixtures, according to your favorite formula! The slide control in the bottom of hopper regulates flow of grain in any proportion you want to the amount of roughage being fed. Agitator keeps small grains flowing freely. Model E grinds up to 6500 lbs. of ear corn, 1700 lbs. of alfalfa per hour—it's the ideal mill for most farms because it fits the requirements of the farmer or poultryman who wants all-around grinding at low cost. The roomy, heavy gauge steel feed table is flared for extra capacity and adjustable for best-feeding angle. Requires only 12 H.P., with capacity increasing with power used up to 25 H.P. You can get this Hammermill for as little as $8 Down—many times the increased profit plus savings in feed will more than meet the low Monthly Payments when you buy on Wards Time Payment Plan. See Inside Back Cover for details.

Construction—Heavy, cast ribbed construction sturdily bolted throughout—built for long, trouble-free operation. Renewable grinding chamber and corrugated side reliners—prolongs life of the machine.

Specifications—16 hammers. Screen area 252 sq. in. Feed table is 28½ in. long, 24 in. wide at top, outer end. Feed opening is 10 in. wide by 8 in. high. Width of grinding chamber is 9 in. Overall height with bagger, 6 ft. 4½ in. Pulley has 4-in. diameter, 7-in. face—should turn at 2800 R.P.M. under load. Rotor shaft at drive pulley is 1⅜ in. diam. Keyway size ⅜ by ⅛ in.

Regularly furnished with ¼-in. screen—if you prefer a different size—**State choice.** Extra screens give you greater use of your mill—order additional sizes below. **Shipped promptly from Stock** in Baltimore. Pay freight from Baltimore.

187 A 3060—Model E, complete with bagger. Shipping weight 550 lbs. **$86.50**

187 A 3095—Model E, complete with wagon box loader. Shipping wt. 555 lbs. **86.50**

487 A 3063—Wagon Box Loader Extension and Spout only. Shipping weight 35 lbs. **4.75**

487 A 3097—Bagger only. Ship. wt. 15 lbs. **4.50**

487 A 3064—Extra 5-in. Blower Pipe, 4-ft. lengths. Ship. wt. 10 lbs. Per length **1.35**

A Leader for Ear or Shelled Corn!

MODEL N

$104.5

$10 DOWN, $8 A

See Inside Back Co

- **Grinds up to 9500 lbs. of ear corn per hour.**
- **Grinds up to 4000 lbs. of oats—2500 lbs. alfalfa, 3500 lbs. corn stalks per hour.**
- **Operates efficiently with a 2-3-plow tractor.**

Large Farms! Big Feeders! Here's a powerful, rugged, big-capacity Hammermill that will grind *all* your dry feed, and let you make extra profit by doing custom grinding besides! Look what it will do in corn alone—almost 5 tons an h It has the same big performance with other grains and roughage too—famous "Grainbuster" hammermill often grinds more than mills selling twice its price. Be sure to read all about its important features above. quires 20 H.P.—capacity increases in proportion to power used up to 35 Heavy boiler plate frame and extra rigid steel construction, solidly bolted need to wait—buy now for only $10 Down and let your hammermill make own monthly payments with increased production and savings in feed. Back Cover.

Specifications—16 hammers. Screen area 476 sq. in. Feed table is 46½ in. l 28¼ in. wide at top, widest point. Feed opening is 14¾ in. by 11½ in. high. W of grinding chamber, 14¾ in. Overall height with bagger, 7 ft. Pulley has 4½ diam., 7⅝-in. face—should run at 2400 R.P.M. under load. Rotor shaft at d pulley is 1⅝ in. diam. Keyway size, 3/16 by 3/16 in. With ¼-in. screen—if other si wanted, **state choice. Shipped from Stock** in Baltimore. Pay freight from B more. See table of low Freight Rates in Back of Book.

187 A 2985—Model N complete with bagger. Ship. wt. 718 lbs. $10

187 A 2989—Model N, complete with wagon box loader. Ship. wt. 735 lbs. 10

All-Steel Hammermill for Less Power

MODEL O

$86.5

$8 DOWN, $7 M

- **Grinds up to 8000 lbs. of ear corn per hour.**
- **3600 lbs. of oats—2000 lbs. alfalfa per hour.**
- **Operates with only a 1-2-plow tractor.**

Designed especially for farms with small tractors, such as Wards Twin Row, Allis Chalmers Mod. B, and Farmall F14 or F20. Same durable, heavy boiler plate steel construction as Wards big Model N above, and is capable of grinding tremend quantities of grain for such low power requirements! Requires only 15 H.P. efficient operation, with capacity increasing in proportion to power used u 30 H.P. Use your credit—see Inside Back Cover for Wards Time Payment P Freight rates given in Back of Book.

Specifications—12 hammers. Screen area 312 sq. in. Feed table is 40½ in. l 23¼ in. wide at top, widest point. Feed opening 9¾ in. by 11½ in. high. Width grinding chamber, 9¾ in. Overall ht. with bagger, 7 ft. Pulley has 4-in. diam face—should run at 2400 R.P.M. under load. Rotor shaft at drive pulley, 1 Keyway size 3/16 by 3/16 in. With ¼ in. screen—if other size is wanted, state ch **Shipped from** Baltimore. Pay freight from Baltimore.

187 A 2991—Model O, complete with bagger. Ship. wt. 593 lbs. $8

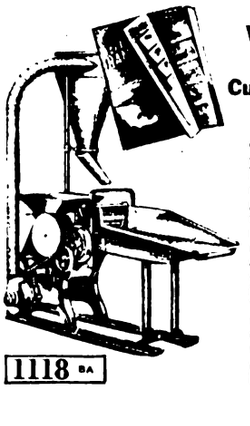
187 A 2995—Model O, complete with wagon box loader. Ship. wt. 610 lbs. 8

ATTACHMENTS FOR MODEL N AND MODEL O

487 A 2988—Wagon Box Loader Extension and Spout. Ship. wt. 32 lbs. $4

487 A 2990—Sacker only. Shipping weight 17 lbs. .....

487 A 3064—Extra 5-in. pipe, 4-ft. lengths. Ship. wt. 10 lbs. Each. .....



Write for FREE BOOK on Larger Sizes and Cutter Head Hammermills

Get detailed descriptions and pictures of all Wards Hammermills. Learn about the big Cutterhead mills with traveling feed table, grain hopper, adjustable knives that prechop roughage. Three big models—they'll grind grain, hay or roughage, green or dry! Also read about Wards Heavy Duty Cast mill with the work-saving traveling feed table, for only $169.50. Wards complete line of Hammermills gives you a size and capacity for every grinding need. Read about them all—start now to make extra profits—send for your copy of this book TODAY!

1118 BA

SCREENS and HAMMERS For All Ward Mills



SCREENS—made of heavy boiler plate steel, with round perforations. Table at right tells you size to use for grain you grind most. Furnished in 1/16, 3/32, ⅛, 5/32, ¼, 5/16, ⅜, ½, ⅝, ¾, 1, 1¼, and 1½-in. sizes. **State perforation size.** *Mailable.* Screens for models C, D, F, H, G, J, and **K shipped from Factory** near Chicago in about 5 additional days—others from Stock.

Model of Mill	Dimension Screen	Article Number	Ship. wt.	Price Each
A, AA, N, BB, O	14½x32	487A3096	10 lbs.	$2.55
B, BB, O	9¾x32	487A3088	6 lbs.	2.10
C, D	13 x37¼	M287A3076	13 lbs.	2.65
E	9 x28	487A3075	7 lbs.	2.35
F, H	13 x26	M287A3078	10 lbs.	2.65
G*	6 x16	M287A3089	4 lbs.	1.25
J*	9 x16	M287A3079	5 lbs.	1.65
K	10 x26	M287A2962	7 lbs.	2.25

*In 1/16, 3/32, ⅛, 3/16, ¼, ⅜, ½, and ¾-in. only.

HAMMERS: *Case Hardened* on Models C, D, E, H, and K, with super-hard shell of steel and slightly softer center—outer edges wear more slowly and make hammers self-sharpening. *Heat Treated Hammers* on Models G, J, N, and O will give long, even wear. All hammers reversible for 4 cutting edges. **Shipped from Stock.**

487A3086—State Model.

Mill Model	Ship. Wt.	Each
A, AA, N, B, BB, O	2 lbs.	65c
E, F, H, K	1¾ lbs.	75c
C, D	2 lbs.	85c
G, J	½ lb.	30c

RECOMMENDED SCREEN SIZES

Sizes recommended by Agricultural Colleges for grin most commonly used feeds. Use the largest screen that give you desired fineness of grinding.

FEED	Dairy Cows	Poultry	
		Chicks	Hens
	Screen Size	Screen Size	
Shelled Corn	⅜ or ½ in.	1/16 or 3/16 in.	½ or ⅝ in.
Ear Corn	⅝ in.	*	*
Corn Fodder	1 in.	*	*
Hay	1 in.	½ or ¼ in.	½ or ¼ in.
Oats	⅜ or ½ in.	½ or 3/16 in.	Whole
Wheat	¼ in.	½ or 3/16 in.	

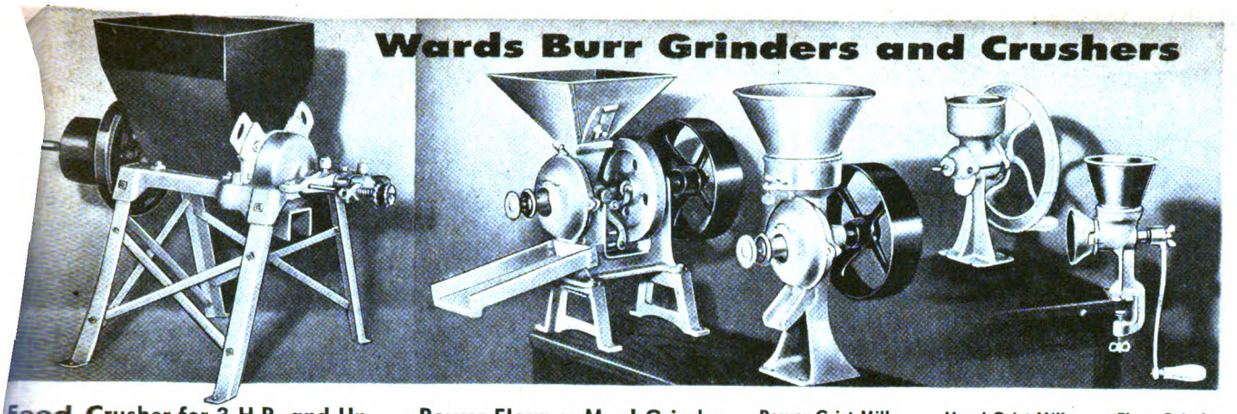
*Not recommended for feeding.

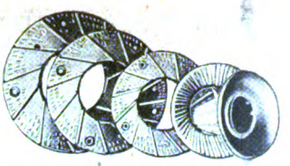
IMPORTANT—ABOUT HORSEPOWER: The power quirements listed for Wards Hammermills are H.P."—not to be confused with "developed" H.P. adver for automobile engines. If you plan to use an auto engi sure to inquire what its brake H.P. is—usually about same as its S.A.E. rating (under which you buy your license). See Index for stationary engines.

If in doubt about right hammermill, power pulley, belt combination for your needs write Wards Engineer Service, Montgomery Ward and Co.

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Wards Burr Grinders and Crushers





95c Burrs—to Fit Most Any Feed Grinder

5½-in. Intensely hard white cast iron, one of the hardest metals known. To order, send pattern of old burr showing outside, center hole, and location bolt holes; give any pattern numbers or marks on both old burrs, name of mill, and manufacturer. Specify coarse, medium, or fine. Odd sizes take price of next larger size. *Mailable.* **Shipped from Factory** near Cincinnati, Ohio in about 10 days.

Article No.	Size	Wt.	Pair
M287 A 3031	5½-in. smaller	3 Lbs.	95c
M287 A 3033	5¾—6-in.	4 Lbs.	$1.60
M287 A 3034	6¼—8-in.	8 Lbs.	2.25
M287 A 3035	8¼—10-in.	12 Lbs.	2.75
M287 A 3036	10¼—12-in.	20 Lbs.	4.75

Replacement Burrs For Wards Larger Type Grinders

Made of same hard white cast iron as above. **Give cast marking on old Burrs. Shipped from Stock.**

Marks on Burrs	Article Number	Wt. Lbs.	Per Pair
1-0 and 1-1	87 A 2953	2	70c
2-0 and 2-1	87 A 2954	4	$1.10
3-4-0 and 3-1	87 A 2955	9	1.50
NA9—5032	87 A 3001	4	1.05
NA91—5031	87 A 3002	4	1.05
N50 and N51	87 A 3041	9½	1.59
N52 and N53	87 A 3042	9	1.59
DF7	87 A 3043	8	1.65
DF9	587 A 3044	10	1.65
N85 and N86	587 A 3046	16	2.10
N87 and N90	587 A 3047	16	2.10
MF7	587 A 3048	14	2.39
MF9	587 A 3049	13	2.39

Feed Crusher for 3 H.P. and Up

26.50 Cash
A MONTH
Back Cover

Grinds up to 30 bushels of ear corn per hour with 5 H.P. Operates at 300 to 700 R.P.M. Hard white cast iron, adjustable 8-in. burrs. Self aligning, self cleaning, and self sharpening. Extra set of burrs included. Grinds corn and all small grain separately or mixed.

Spiral Cob Breaker and Force Feed

gulates flow of feed. Ball end-thrust bearing. Sheet el hopper. Babbitted bearings. Pulley 8 by 6 in. pped **from** Waterloo, Ia. in about 5 days.
7 A 3028—Ship. wt. 245 lbs. Cash Price.. **$26.50**

Crusher With Outboard Bearing and Agitator

s extended frame with extra bearing to support ft end when operated with large engine or tractor. itator prevents bridging.
7 A 3045—Mill with 8-in. burrs and 8-in. lley with 6-in. face. Wt. 280 lbs. Cash Price **$33.75**

Large Capacity Crusher With 10-in. Burrs

87 A 3029—With 10-in. burrs and 12 by 6-in. pulley. Grinds up to 60 bushels ear corn an hour th 10 H.P. Ship. wt. 400 lbs. Cash Price.... **$42.95**

Power Flour or Meal Grinder

$12.95 Cash
$2 A MONTH
See Back Cover

Grinds 75 to 1400 pounds per hour with ¾ to 5 H.P. Runs 250 to 700 R.P.M. depending on power and material to be ground.

5½-In. White Cast Iron Burrs: Extra set of burrs included. Adjust fine or coarse. Grind corn meal, buckwheat, graham flour—chicken mash or feed. Cam type shaker screen. Heavy shaft bearings.

Large sheet steel hopper. 1 peck cap.—with feed regulator. Heavy cast flywheel. 19 in. high. 12-in. pulley with 3-in. face. See Inside Back Cover for Terms. **Shipped from Factory** near Cincinnati, O. in about 7 days.

287 A 3004—Complete with shaker screen. Ship. wt. 120 lbs. Cash Price..... $12.95
287 A 3003—Mill without shaker screen. Ship. wt. 100 lbs. Cash Price. **$11.95**
287 A 3012—Mill without balance wheel, or shaker screen.
Shipping weight 70 lbs. Cash Price.. **$10.50**

Power Grist Mill

$8.60 Cash

Grinds 5 to 20 bushels of shelled corn or grain per hour! Cod liver oil or molasses can be fed directly into hopper for mixing. Feed regulator. Speeds of 200 to 600 R.P.M. with ½ to 3-H.P. electric motor. 12-in. pulley. 25 in. high — hopper capacity 1 peck. One pair each, 5½-in. coarse and fine burrs. Can be adjusted while running. **Shipped from** near Cincinnati, O. in abt. 7 days.

287 A 3000—Ship. wt. 65 lbs.... $8.60

Hand Grist Mill

$2.65 No. 1½

For corn, all kinds of dry grains, dry bone, shells, rock salt, roots, etc.—coarse, med., or fine. Use to grind corn meal and whole wheat flour for table use. Cast burrs. No. 1½ grinds about a bu. an hour; No. 2, 2 bu.; No. 3, 3 bu. Balance wheel. Wts. 18, 34 and 65 lbs. *Mailable.* Order from Baltimore, Albany, or Pittsburgh.

P487A2950—No. 1½, 13½ in. high.... $2.65
P487A2951—No. 2, 16 in. high..... $4.25
P487A2952—No. 3, 20 in. high..... $6.79

Flour Grinder

$2.49

Grinds excellent whole wheat flour. Also grinds cocoa, corn, wheat, oats, soy beans, rice, coffee, fine or coarse root bark or rock salt. Force feed worm for moist substances. Extra hard, white cast iron conical burrs—long lasting. Removable heavily tinned hopper. Ship. wt. 8½ lbs.

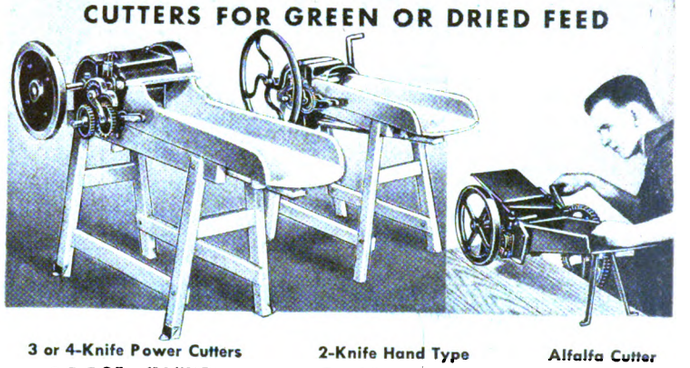
587 A 2945—*Mailable*.. $2.49

CORN SHELLERS—HAND OR POWER



$1.99





CUTTERS FOR GREEN OR DRIED FEED

17.95 Cash
50 A MONTH
Back Cover

Improved HAND Sheller

proved in looks! In operation! asier to run because the extra balance wheel keep sheller nning smoothly. Improved fety type handle with ratchet ike a cream separator).

Shells 20 to 30 bushels of ear rn per hour. Adjusts for any ze ear. Belt-driven fan blasts elled corn clean. Shelled corn rops through bottom—cobs at nd. Angle steel frame. Machined earing boxes. Easy turning.

akes Power Sheller—by using -belt or 2-in. flat belt on the 18- flywheel. Turn at 200 R.P.M. t. 128 lbs. **Shipped from** Baltmore, Albany or Pittsburgh.
87 A 2707—Sheller. Cash. **$17.95**

Shells Up to 125 Bu. Per Hour

$58.95 Cash
$6 A MONTH
See Back Cover

Up to 125 bu. ear corn per hour. Uses only 2 to 4 H.P. at 800 to 900 R.P.M. Shells any size ears, hand or mechanically picked. Corn shelled between revolving chilled cast iron cylinder with staggered lugs and steel plate—screened and delivered beneath. Steel shaker frame, 16½ in. by 11 in. Grease cup lubrication. 12 by 6-in. pulley. Size 48 in. high. **Shipped from** near Chicago, Ill. in about 7 days.

287 A 2747—Sheller with 7½-ft. blower elevator (large picture). Ship. wt. 345 lbs. Cash.. **$58.95**
287 A 2748—Sheller with Cleaning Fan and 7½-ft. blower elevator. Ship. wt. 410 lbs. Cash. **$66.75**
287 A 2741—Sheller only (without blower, elevator or cleaning fan). Ship. wt. 230 lbs. Cash **$33.50**
287 A 2749—Sheller with Cleaning Fan and Sacker (small picture). Ship. wt. 380 lbs. Cash..... **$62.95**
287 A 2746—Sheller with Cleaning Fan only (shelled corn discharged underneath). Wt. 310 lbs. **$45.50**
287 A 2745—Sheller with Cleaning Fan and Wagon Box Elevator (6¼ ft. to spout). Wt. 405 lbs. **$68.50**
287 A 2744—Swinging Cob Stacker.
Shipping weight 115 lbs..... **$22.95**

Table Model Hand Corn Sheller

Shells 10 to 14 bushels of ear corn per hour. For any size dry ear corn or popcorn. Clamps to board, barrel or bin. Adjustable spring tension—shells small ears clean. Tipping and butting attachment removes small, imperfect kernels. Made of heavy cast iron. Cob ejector throws cobs out—easier, faster. **Shipped from** Baltimore Albany or Pittsburgh.

P487A2705—With cob ejector (as pictured). Ship. wt. 19 lbs. *Mailable*..... **$1.99**
P487A2704—Without cob ejector. Ship. wt. 16 lbs. *Mailable*. **$1.84**

3 or 4-Knife Power Cutters

$46.95 Cash **$5 A MONTH** See Back Cover

Both models have braced and bolted hardwood frame and feed table. Pressure controlled rollers force feed through opening. **Shipped from Factory** near Chicago in about 10 days. Ship. wts, 400, 300 lbs.

4-Knife — cuts 2000 to 3000 lbs. dry feed per hour. Double capacity on green feed. Adjustable 11-in. knives for 1/8 to 3/16-in. and 1 to 2-in. cuts. Requires 2 to 3 H.P. at 400 R.P.M. Flat pulley has 12-inch diameter, 4-in. face.
287 A 6565—4-Knife..... **$59.75**

3-Knife—Cuts 800 to 1200 lbs. dry feed per hour. 10½-in. knives adj. for 1/8 to 3/16-in. cut. Requires 2 H.P. at 300-400 R.P.M. 10-in. pulley, 4-in. face.
287 A 6570—3-Knife..... **$46.95**

2-Knife Hand Type

$27.95 Cash **$4 A MONTH** See Back Cover

Cuts 300 to 400 lbs. green—or 150 to 200 lbs. dry feed per hr. Positive feed rollers, 7¾ in. feed opening—no choking of cutting head. Two 8¼-in. spiral knives cut on down stroke — removable and adjustable. Sliding cone gear permits 1/8, 3/16 and ½-in. cuts. Quick action safety lever is easily reached for emergency stops. Hardened steel cutter bar. Braced, hardwood frame. Crank for hand operation only—heavy balance wheel for greater speed, less effort. Only $3 down and $4 a month—see Inside Back Cover. **Shipped from Factory** near Chicago, Ill. in about 10 days. Shipping weight 150 lbs.
287 A 6564—Cash.... **$27.95**

Alfalfa Cutter

$14.25 Cash

Cuts 50 to 100 lbs. of green feed or 25 to 50 lbs. of dry feed an hour. Gear driven pressure rollers force feed through 6½-in. feed opening. Has four 7-in. knives—malleable cutterhead. Cuts alfalfa into ½-in. lengths with 4 knives, 3/8 in with 2 knives. Adjustable steel cutter bar, heavy flywheel. Cast iron frame. **Shipped from** near Chicago, Ill. in about 10 days.
287 A 6567—Ship. wt. 60 lbs. *Not Mailable*..... **$14.25**

GALVANIZED GRAIN BINS AND LOW PRICED CRIBS



101.75 Cash
$5 A MONTH
See Back Cover

500 Bushels

Fireproof—Waterproof—Ratproof

- **Heavily galvanized 26-gauge steel sides and bottom—26-gauge roof with opening.**
- **Ventilated—to prevent spontaneous fire.**

Strong! Reinforced seams, horizontal ribs and door. Swinging port, removable top section. Vacuum top. Ventilating tube to prevent rot. **Shipped from Factory** near Kansas City, Mo. in about 4 days.

Grain Bins—Capacities are for Small Grain

Diameter Ft.	Diameter In.	Height	Cap. Bu.	Ship. Wt. Lbs.	Article Number	Cash Price
10	1	8 ft. 2 in.	500	708	287 A 2850	$101.75
14	3½	8 ft. 2 in.	1000	1086	287 A 2854	152.50
14	3½	10 ft. 11 in.	1350	1311	287 A 2860	172.50
18	½	10 ft. 11 in.	2200	2225	287 A 2876	279.50

Corn Cribs—Perforated for Ventilation

For ear corn, shelled corn, or small grain. Ear corn should not contain more than 16% moisture. Capacities are for ear corn. Grain and shelled corn cap. same as above.

Diameter Ft.	Diameter In.	Height	Cap. Bu.	Ship. Wt. Lbs.	Article Number	Cash Price
10	1	8 ft. 2 in.	275	708	287 A 2893	$107.50
14	3½	8 ft. 2 in.	550	1086	287 A 2895	156.50
14	3½	10 ft. 11 in.	690	1311	287 A 2896	179.95
18	½	10 ft. 11 in.	1133	2225	287 A 2898	278.50

Buy Bins or Cribs on Time Payments—Let Increased Market Prices Help Make Payments—See Back Cover!

Low Cost Slat Cribs

$6.90 75-ft. length

Wood slats are 1½ in. wide by ½ in. thick—spaced 2 in. apart. Slats are bound to stay with five 12-gauge wire cables, tightly twisted. Red mineral paint is applied hot to preserve the wood and lengthen life of the crib. Use cribs for corn, hay, alfalfa, etc. **Shipped from Factories** near Albany, Horseheads, or Buffalo, N.Y., Candia, N.H., or Columbus, O. in about 4 days.

Double Section Cribs 8 Feet High

Made of 2 sections of 4-foot pickets.

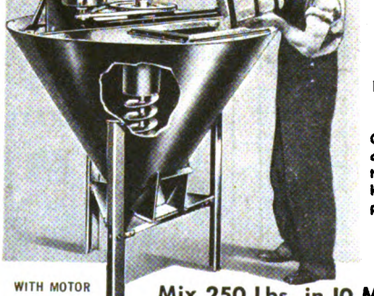
Article Number	Cap. Bu.	Diam. Ft.	Lgth. Ft.	Wt. Lbs.	Each
287 A 2836	400	12	75	250	$6.90
287 A 2838	600	14	90	300	8.25
287 A 2839	800	16	100	325	8.95
287 A 2844	900	17	110	360	9.85
287 A 2846	1200	20	130	440	11.75
287 A 2848	1500	22	150	500	12.95

Single Section Cribs 4 Feet High

287 A 2840	400	16	50	165	$4.75
287 A 2841	500	18	60	180	5.45
287 A 2842	600	21	65	220	5.95

Make Temporary Silo—Use Wards Silo paper (see Page 1013) inside, use wet straw on top to protect and shed rain.

WHIRLWIND FEED MIXERS



WITH MOTOR
$63.95 Cash
$6 A MONTH
See Back Cover

Mix 250 Lbs. in 10 Minutes!

- **Mixes all dry grains, mashes and feeds.**
- **Strong construction—16-ga. steel mixing chamber and rigid angle steel frame.**
- **Operates from ½-H.P. Delco Motor.**

Stock feeders! Poultry raisers! Turn your home grown crops into prepared feeds at low cost with this low priced Feed Mixer. Save the 3c to 10c per 100 lbs. for custom mixing—use this saving to help make the convenient monthly payments (see Inside Back Cover).

Do your own mixing at times and in quantities convenient to you. Make your own favorite formulas—the kind that produce the biggest profits with your own stock. Your Whirlwind Mixer will pay extra profits from fatter livestock and increased milk and egg production. In time it can easily pay for itself.

Just $6 Down and $6 a Month will pay for the 250-lb. size on Wards Time Payment Plan—See Inside Back Cover for Details.

Simple, Efficient Operation—Grain is lifted from bottom to top by vertical conveyor and *whirled* to outer edges of the chamber by mixing paddle. Process is repeated many times, making a complete mix of *all* the grain—mixing concentrates more thoroughly throughout feed than with cheap, inefficient mixers. 16-Ga. steel chamber has inner lining part way up sides of Zinc-Grip steel to prevent bridging. Joints are electrically welded.

Specifications—Operates at 400 R.P.M. from ½-H.P. elec. motor or line shaft. Mixing chamber is 48 in. in diam. at top. Ht. to top is 49 in. **Shipped from Stock** at Albany or Baltimore.

187 A 3026—Mixer with Delco ½ H.P., 110-120 volt, 60 cycles, A.C. motor. Ship. wt. 225 lbs. Cash Price..... $63.95
187 A 3027—Mixer less motor, but with belt; 2½-in. V-pulley for motor shaft with ½ in bore.; 12-in. pulley for mixer shaft. If different size bore is wanted see V Belt pulley listings on Page 1111. Ship. wt. 175 lbs..... **$44.95**

SEND FOR FREE FEED MIXER CIRCULAR

Gives prices and description on 500, 1000 and 2000 pound sizes.



500 to 2000-Pound Whirlwind FEED MIXERS

Mix Grain, Mash or your feed thoroughly because:

Mixing Paddle—whirls and suspends different feeds in mixing chamber.

Feed Circulates—many times. Mixes large or small quantities equally.

Screw Conveyor—revolves lifting feed from bottom to top.

Loading Hopper—swings under bag spout to rerun feed as desired.

All sizes are available with jack shaft to mount motor vertically at top of feed mixer (see picture).

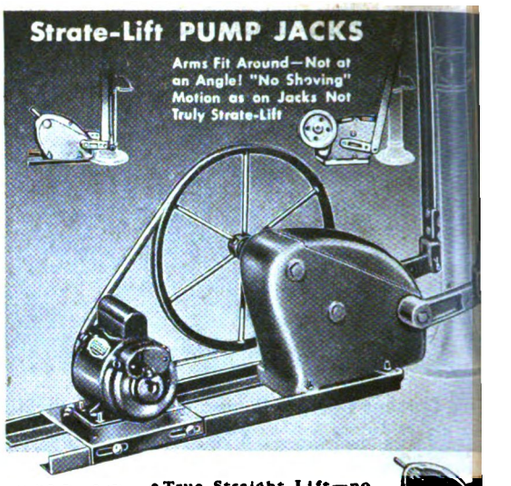
500-Lb. Mixer
As Low As **$74.50**
1000-Lb. Mixer
As Low As **$177.50**
2000-Lb. Mixer
As Low As **$219.50**

Send for FREE Circular Above!

BA WARDS 1119

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Automatic Waterers for Hogs, Sheep, and Other Small Stock

$6.95 Installed

Water all your small stock with the same tanks you use for cows and horses! It's easy when you order Wards Zincgrip tanks with these efficient waterers built right in. You fill only one tank—eliminate handling small water troughs. Have Wards Waterers installed at each side of your tank—put it right across a fence line (as picture above shows)—let stock in different pastures all drink at the same place.

Wards Automatic Waterers are made of heavily galv. steel—equipped with brass valve, operated by copper float. They fill automatically as hog or sheep drinks out of them. Metal shield protects float.

Waterers are sold *only* with round end Zincgrip tanks at right (tank must be 2 ft. high or more)—and must be installed at factory. To order, state article no., number of waterers wanted, and location. (NOTE: If you order 2 or more state whether they are to be on same side or opposite sides of tank, and whether in center or toward ends of sidewall. *Waterers cannot be installed in curved ends.*) Add price of waterers to price of tank.

The number of waterers you will want depends upon size of tank you select. Order a tank at least 8 ft. long if you want more than 1 waterer on each side.

Get all the waterers you need when you buy your tank—4 waterers installed in Wards 16-ft. angle-top tank adds only $1 to the monthly payment—See Pg. 1183.

287 A 6661—Built-in Waterer....**$6.95**

Round End Tanks

Width Feet	Ht. Ft.	Lgth Feet	Cap. Gals.	Wt. Lbs.	Article Number	Cash Price
2	1	4	47	45	287A6624	$6.75
2	1	6	78	65	287A6625	8.75
2	1½	4	78	50	287A6627	6.95
2	1½	6	110	70	287A6628	9.75
2	2	3	82	42	287A6629	6.75
2	2	4	95	60	287A6630	7.75
2	2	5	117	75	287A6631	8.95
2	2	6	141	90	287A6632	10.45
2	2	8	197	120	287A6634	13.45
2	2½	8	250	135	287A6636	15.45
2½	2	6	180	100	287A6637	11.95
2½	2	8	250	130	287A6638	14.95
2½	2½	8	312	150	287A6639	17.75
3	2	8	299	140	287A6640	16.50
3	2	10	385	170	287A6646	20.50
3	2	12	470	200	287A6647	23.95
3	2½	10	485	190	287A6648	23.45
4	2	8	398	150	287A6649	18.95
4	2	10	508	195	287A6650	22.95
4	2	12	625	230	287A6651	27.45
4	2	16	852	300	287A6652	35.50

Round Tanks

Diam. Feet	Height Feet	Cap. Gals.	Wt. Lbs.	Article Number	Cash Price
3	2	95	65	287 A 6664	$8.25
4	2	157	80	287 A 6666	10.45
4	2½	213	90	287 A 6668	12.45
5	2	267	110	287 A 6669	13.45
5	2½	335	120	287 A 6670	15.75
6	2	393	140	287 A 6671	17.25
6	2½	492	150	287 A 6672	19.95
7	2	598	170	287 A 6673	22.75
7	2	540	165	287 A 6674	21.75

20-Gauge Angle Top—Armor Coated with Pure Zinc

$6.75 47-Gal. Round End

Now you can buy Angle Top Stock Tanks at Wards made of famous Armco Zincgrip Steel—the Super-Galvanized steel that's especially suited for tank construction. Their armor finish is stronger than ordinary galvanizing—doesn't crack or peel when tank is being formed. As a result, Zincgrip tanks actually resist rust longer than ordinary steel tanks, at points where rust is most likely to occur!

Replace Old Worn-Out Tanks! Replace them now with Wards Heavy-Duty Zincgrip Steel Tanks—be ready to supply your livestock with the extra water they need in hot weather. You'll be money ahead in replacements! You can buy them in sizes to meet any stock watering need—they'll even handle sheep and hogs when equipped with built-in waterers shown at left.

Rugged Construction—Made of 20-gauge sheets of Armco Zincgrip Steel strongly riveted at top between two reinforcing ⅛-in. bands, and with strong angle iron top. Sides and bottom are folded together and riveted to form a flange of several thicknesses. Bottom seams are sweat soldered—leakproof. Round end tanks have reinforcing top cross braces as needed. Ship. wts. at left.

Write for prices on sizes not shown. If you want a drain plug installed, specify and give location. For ¾-in. opening add 55c to price of tank, for 1-in. opening add 75c.

Shipped from Factory near Dayton, Ohio, usually in 5 additional days.

NOTE: *We recommend Wards Wood Tanks, below, for water of high alkali or iron content.*

¼-H.P. Elec. Outfit

$43.50 Cash

- **True Straight Lift—no binding—no excessive wear on pump or jack.**
- **Two Roller Bearings and Four Self-Lubricating Oilite Bearings.**



Arm on Eccent (A) gives rock motion at (B) lift arms str up and down

It costs less than a penny to overflow a 117-gallon tank from a 25-ft. well with Wards ¼-H.P. Electric *Strate-Lift* Pump Jack Outfit . . . and that's real operating economy! Not only does it cost you less to operate, but a Ward *Strate-Lift* will give more years of trouble-free service—Here's why:

Straight Vertical Stroke eliminates binding and excessive wear because jack arms move up and down in direct line with pump rod—never at an angle. This conserves power—insures smooth, operation years after many pump jacks have worn out.

Simple, Sensible Construction—only 2 gears—plus low 6:1 ratio and speed (only 216 R.P.M.) further reduce power loss—give much less lash and wear than jacks with complicated trains. Machine cut, semi-gears and friction-free bearings run in oil, fully enclosed in water-tight, dust-tight housing. Stroke adjusts to 5, 6, or 7 in.

Electric Outfits—For 110-220-volt, 60-cycle A.C. (¼-H.P. is 110-only). Heavy-duty Delco motor has Thermotron overload protector prevent burn-out.

Engine Outfits—have Wards Air-Cooled Engines described on Page 1

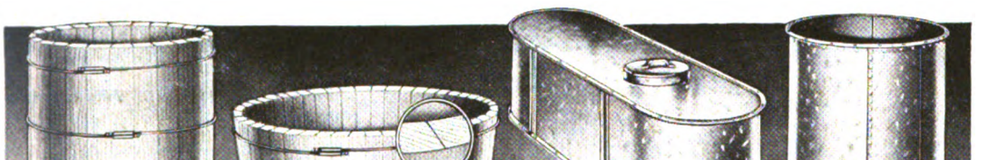
Jack Only—must operate 216 R.P.M. (36 strokes per min.) Use with tric motors or gasoline engines of 800—2300 R.P.M.

Holds 4 qts. of oil. (Not included; use SAE 20). Removable top. Comp

Only Downan per Mo buys the H. P. E tric Ou above Inside Cover compl Details

Well depths below are maximum, using 1¼ in. cyl.

Article Number	Description	For Wells to	Wt. Lbs.	Cash Price
187 A 5276	¼-H.P. Electric Motor Outfit	185 ft.	179	$43.50
187 A 5273	½ H.P. Electric Motor Outfit	250 ft.	184	48.50
187 A 5274	½-H.P. Electric Motor Outfit	370 ft.	209	52.50
187 A 5277	¾-H.P. Gasoline Engine Outfit	370 ft.	182	57.95
187 A 5278	1-H.P. Gasoline Engine Outfit	500 ft.	184	63.95
187 A 5270	*Jack only, with 20-in. "V" pulley	.....	130	24.50



All-Heart Redwood—Tongued and Grooved

$12.95 Cash 2x4 ft.

Finest rot-resisting California Redwood—no knots to cause leaks. Beveled staves form tight-fitting circle. Reinforcing steel hoops, adjust. lugs. **Shipped flat from** near Baltimore, Md. in about 5 addt. days.

Storage Tanks—2-in. Staves and 2-in. Bottoms.

Article No.	Height	Diam.	Cap. Gal.	Ship. Wt.	Each
287 A 6796	4 ft.	4 ft.	281	300 lbs.	$29.75
287 A 6797	4 ft.	5 ft.	470	400 lbs.	37.95
287 A 6798	4 ft.	6 ft.	693	500 lbs.	47.75
287 A 6799	5 ft.	5 ft.	595	500 lbs.	45.50
287 A 6800	5 ft.	6 ft.	906	600 lbs.	52.95
287 A 6802	6 ft.	6 ft.	1095	650 lbs.	59.95
287 A 6803	6 ft.	7 ft.	1505	800 lbs.	74.50
287 A 6804	6 ft.	8 ft.	1906	1000 lbs.	85.75
287 A 6805	7 ft.	6 ft.	1281	680 lbs.	69.95
287 A 6807	7 ft.	7 ft.	1750	950 lbs.	82.50
287 A 6801	7 ft.	8 ft.	2312	950 lbs.	93.50
287 A 6806	8 ft.	6 ft.	1530	900 lbs.	78.25
287 A 6808	8 ft.	8 ft.	2687	1150 lbs.	107.95
287 A 6809	8 ft.	9 ft.	3312	1200 lbs.	125.50
287 A 6810	8 ft.	10 ft.	4250	1300 lbs.	142.50
287 A 6812	10 ft.	10 ft.	5345	1700 lbs.	159.95

Stock Tanks—1½-in. Staves and 2-in. Bottoms.

287 A 6778	2 ft.	4 ft.	125	125 lbs.	$12.95
287 A 6780	2 ft.	5 ft.	220	225 lbs.	17.95
287 A 6782	2½ ft.	5 ft.	281	230 lbs.	19.50
287 A 6784	2 ft.	6 ft.	315	300 lbs.	21.95
287 A 6786	2½ ft.	6 ft.	409	325 lbs.	26.45
287 A 6788	2 ft.	7 ft.	438	350 lbs.	28.95
287 A 6790	2½ ft.	7 ft.	563	375 lbs.	31.95
287 A 6792	2 ft.	8 ft.	595	400 lbs.	34.95
287 A 6793	2½ ft.	8 ft.	750	450 lbs.	36.95
287 A 6779	2 ft.	9 ft.	750	470 lbs.	39.45
287 A 6783	2½ ft.	9 ft.	968	500 lbs.	44.75
287 A 6794	2 ft.	10 ft.	937	500 lbs.	47.50
287 A 6795	2½ ft.	10 ft.	1187	575 lbs.	48.75
287 A 6781	2 ft.	12 ft.	1343	600 lbs.	61.95
287 A 6785	2½ ft.	12 ft.	1718	700 lbs.	65.95
287 A 6789	3 ft.	12 ft.	2256	900 lbs.	72.50

Save at Wards on Louisiana Red Cypress Tanks

$17.25 Cash 2x4 ft. Stock Tank

1½-in. Staves, Bottoms. No. 1 clean grade stock. Accurately beveled staves insure tight fit. Steel hoops with adj. malleable iron lugs. Easily set up. **Shipped from** near Baltimore, Md. in about 5 days.

Red Cypress Stock Tanks

Article No.	Height	Diam.	Cap. Gals.	Ship. Wt.	Each
287 A 6700	2 ft.	4 ft.	125	140 lbs.	$17.25
287 A 6701	2 ft.	5 ft.	220	200 lbs.	20.45
287 A 6702	2½ ft.	5 ft.	281	230 lbs.	26.95
287 A 6703	2 ft.	6 ft.	315	260 lbs.	23.95
287 A 6704	2½ ft.	6 ft.	409	290 lbs.	30.75
287 A 6705	2 ft.	7 ft.	438	315 lbs.	25.45
287 A 6708	2½ ft.	7 ft.	563	375 lbs.	35.25
287 A 6707	2 ft.	8 ft.	595	400 lbs.	37.75
287 A 6708	2½ ft.	8 ft.	750	450 lbs.	45.50

Red Cypress Storage Tanks

Article No.	Height	Diam.	Cap. Gals.	Ship. Wt.	Each
287 A 6711	4 ft.	4 ft.	281	270 lbs.	$26.75
287 A 6712	4 ft.	5 ft.	470	360 lbs.	31.75
287 A 6713	4 ft.	6 ft.	693	390 lbs.	36.45
287 A 6714	5 ft.	5 ft.	595	450 lbs.	38.25
287 A 6716	6 ft.	6 ft.	1095	550 lbs.	48.25

See Inside Back Cover for Terms on Tanks and Tank Heaters

Jolt-Proof Wagon Tanks

$13.45 Cash 2 x 4 ft.

Put one on your farm truck or wagon—haul water right out to the field, or wherever you need it. Heavily galvanized—made of 20-ga. steel. All seams riveted and soldered to prevent leaks. Built-in splash board keeps water from washing back and forth Larger sizes have side braces. All sizes are 2 ft. high, with 1-inch pipe connection. Top has 14-inch manhole, with manhole cover. Use them for water only. **Shipped from Factory** near Plymouth, Ind. in about 5 addt. days.

Article Number	Size, Ft.	Cap. Gal	Wt. Lbs.	Each
287A6694	2 x 4	95	85	$13.45
287A6695	2 x 6	142	125	18.25
287A6696	2 x 8	212	145	18.75
287A6697	2½ x 8	250	155	20.95
287A6698	3 x 8	297	195	24.45
287A6699	3 x10	383	225	27.75

Galvanized Storage Tanks

$16.25 Cash 4 x 4 ft.

Built of 20-ga. galvanized steel. Heavy reinforced side seams are riveted and soldered. Sturdy angle rims on top and bottom give added strength. If you want 18-ga. steel instead of 20-ga., specify on your order and add 30% to the price. Shipped set up; or flat with rivets and solder, to save you freight. Specify method of shipping. Largest size costs only $5 a Month on Time Payments—see Page 1183. Write for prices on other sizes. **Shipped from Factory** near Dayton, Ohio in about 5 addt. days.

Article No	Ht.	Diam.	Gal	Lbs.	Each
287A6754	4 ft	4 ft.	338	110	$16.25
287A6755	4 ft	5 ft.	540	155	18.95
287A6756	4 ft	6 ft.	790	210	27.95
287A6761	5 ft	5 ft.	680	186	24.25
287A6757	5 ft	6 ft.	976	245	32.95
287A6758	6 ft	6 ft.	1190	270	37.95
287A6759	8 ft.	6 ft.	1656	360	47.75

TANK HEATERS



$9.95 12 in.

Self-Sinking Heaters

Burn coal or wood. Will melt and take chill from a 100-gallon tank of ice in two hours. 1-piece cast iron—no seams or bolt holes for water to seep through. Large fire door for easy filling. With grate, ash pan, 2-ft. stack, spark arrester, damper, poker. **Shipped from** near Dayton, Ohio in about 5 addt. days.

Article No	Diam.	Wt	H ght.	Each
287A3590	12 in.	135 lbs.	24 in.	$9.95
287A3591	14 in.	180 lbs.	24 in.	12.45
287A3592	16 in.	195 lbs.	24 in.	13.95

Repair Grates and Ash Pans

Will fit all cast iron tank heaters similar to above. Wts.: Grates—8, 11, 13 lbs.; Ash Pans—9, 14 and 16 lbs.

Article Number	Grate Diam. In.	Grate (A)	Ash Pan Diam.	Ash Pan (B)
587A3580	10⅜	98c	9⅜ in.	99c
587A3581	12⅛	$1.12	12¼ in.	$1.15
587A3582	13⅛	1.40	12½ in.	1.45

ELECTRIC TANK HEATERS



Automatic—Always Warm Water for Your Cattle!

$29.95 Cash **$4 MONTH**

Nothing to do but keep your tank full of water. Turns on at 42°—off at 48°. Users report operating costs low as 50 to 75 K. W. H. per month. 1000-Watt Chromalox unit heats *fast*—no current wasted to build up temperature. Holds heat many minutes after current has been shut off. Cast iron, water-tight base is self-sinking. Metal conduit and armored cable protect wire. With outlet box cover, plug, 36 in. high overall. For 110-volt A.C. **Shipped from Stock.** Buy now—pay as you use it. See Inside Back Cover for details on Wards Time Payment Plan. Ship. wt. 45 lbs. *Available.*

487 A 3577.....**$29.95**

WORM GEAR PUMP JACKS

¼-H.P. Electric Outfit

$30.95 Cash

Sturdy construction and smooth operation usually found in jacks selling $3 to $16 higher!

Ball Bearing—(16 big balls) takes end thrust of worm shaft. Jack pumps easily, smoothly—lasts for years.

Heavy Semi-Steel Gears—perfectly matched for quiet operation.

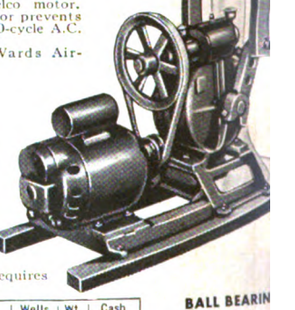
Pump 30% More Water than ordinary jacks.

Low Gear Ratio of 14 to 1 reduces wear. Cast iron gear case is leakproof, dust-tight—comes filled with grease. Long shaft bearings. Strong ash side arms; semi-steel cross head. Stroke adjustable to 5, 7½ or 10 in.—makes 40 strokes per minute at 540 R.P.M. Jack bolts to floor and clamps to pump stand. Complete outfits have cast iron base, wood skids, V-belt drive. Instructions.

Electric Outfits—have Delco motor. Thermotron overload protector prevents burning out. 110-120 volt, 60-cycle A.C. (¼-H.P. is 110 volt only).

Gasoline Outfits—have Wards Air-Cooled Engines described on Page 1115.

*Pump Jack Only—should turn at 490 to 560 R.P.M. (35 to 40 strokes per minute). Use engines of ½ to 1¾-H.P. operating at 800 to 2300 R.P.M.; or motors of ¼ to 1-H.P. See "V-Drives" in Index for how to figure diam. pulley required on engine or motor. Without motor base or skids, Jacks and Complete Outfits **Shipped from Stock.** Well depths given below are maximum, based on using 1¾-in. cyl. Larger cyl. requires proportionately more power.

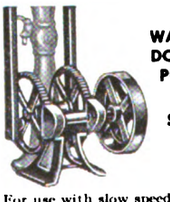


Article Number	Description	Wells To (Ft.)	Wt. Lbs.	Cash Price
187A5235	With ¼ H.P. Elec. Motor	100	145	$30.95
187A5236	With ½ H.P. Elec. Motor	141	155	34.95
187A5237	With ½ H.P. Elec. Motor	200	170	39.95
187A5243	With ⅝ H.P. Gas Engine	200	146	45.95
187A5244	With 1 H.P. Gas Engine	296	148	51.95
187A5231	*Jack only—12x2 in. flat pulley	375	94	12.29
187A5232	*Jack only—8½ in. "V" pulley	375	94	12.29

BALL BEARIN



Gears Run in Gr



WARDS OPEN DOUBLE GEAR PUMP JACK

$10.49 Cash **$2 A MONTH**

For use with slow speed engines only (350-600 R.P.M.) Adj. stroke—5, 7½ or 10 in. Semi-steel gears. Long shaft bearings. Shielded pinion gear. For wells to 210 ft. Back-geared 4 to 1. 40 strokes per min. at 160 R.P.M. 12x2-in. pulley.

187 A 5251—Ship. wt. 95 lbs..**$10.49**



6, 8 and 10-Ft. Windmill

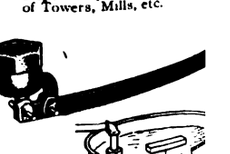
Six miles an hour—*the lo average wind velocity in the U* is more than enough to freely! Write Wards Farm Equ Dept. for prices and descrip of Towers, Mills, etc.

High or Low Pressure Valve

Use for maintaining water level in any stock or storage tank. Simple, dependable—operates with intake from top or bottom by reversing lever. Brass valve, rubber washer. Fits 1-inch pipe. Float not included.

87 A 3320—Wt. 2 lbs. 2 oz. **$1.65**

87 A 3321—Round Galvanized Float for above valve. Ship. wt. 8 lbs. Each.....**98c**



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Wards Famous Royal Blue



BENCH MODEL
LOW AS
$42.00 Cash
$5 A MONTH

FLOOR MODEL
LOW AS
$49.50 Cash
$5 A MONTH

NO OTHER LOW-PRICED SEPARATOR EQUALS IT!



Look at the facts! Here's an actual, point-by-point comparison between Wards and the *only other* American Made Table Model Separator selling under $20.

Quality Features:	Wards	Other
Open Spouts	Yes	No
Enclosed Clutch	Yes	No
Stainless Bowl Nut	Yes	No
All Gears Enclosed	Yes	No
100% Lubrication	Yes	No
Speed Indicator	Yes	No
Spindle Bearing	Yes	Yes
Neck Bearing	Yes	Yes
Double Pinion Bearing	Yes	No
One-Piece Bowl Core	Yes	No
Non-splash Supply Can	Yes	Yes
Welded Disk Spacers	Yes	No
Sanitary Oil Drain	Yes	No
Oil Fill Cap	Yes	No
Capacity	225 lbs.	225 lbs.
Type of Cream Adj.	Screw	Skim Milk Screw
Diam. of Float	4 in.	2⅞ in.

With Ball Bearings—Stainless Steel Disks



Stainless Steel Top Disk Compression Disks, Bowl Nut and Distributor

Skims 500 Lbs. per Hour

According to the latest reports of the Federal Trade Commission *almost one out of every two Separators sold in the United States is a Ward Machine.* Royal Blue is one of the most widely used and satisfactory Separators ever built—only Wards tremendous sales make it possible to give you so much value at this low price. Equal in quality and close skimming to Separators selling elsewhere at much higher prices.

- **Separates 80 Quarts in 20 Minutes**—Ample capacity for herds up to 8 cows.
- **Self-Balancing Bowl**—Leaves less than ½-oz. butterfat in 100 lbs. of skim milk.
- **Adjustable Cream Screw**—Adjusts easily for cream from 18 to 55% butterfat.
- **26-Gauge Tinned Steel Disks**—With welded spacers—Insure new machine performance indefinitely—can't crush, lose efficiency, like punched disks.
- **New Open Spouts**—Easy to keep clean and sanitary.
- **Special Alloy Bearings for Easy Turning**—Long wearing, friction free! Constantly lubricated by splash oiling system. Gears run in oil.
- **Strong Cast Iron Frame**—Protected with triple coat of Royal Blue Enamel—baked to a glistening, permanent luster. Complete with instructions, brushes, month's oil supply, disk washing rack, bowl vise, and wrench. Add a Royal Blue to your Time Payment Order and pay for it with Extra Profits from your cream checks. For only a dollar a month more you can have the time-saving electric model (at left). See Inside Back Cover for Details. **Shipped from Stock.**

187 A 4730 — Hand operated Bench Model with instructions for making bench. Wt. 97 lbs. **$42.00**

187 A 4731 — Hand operated Floor Model Separator with sturdy frame and movable pail shelf. Ship. wt. 140 lbs. **$49.50**



ELECTRIC
Low As **$61.00**

ELECTRIC MODEL ROYAL BLUE SEPARATORS

actly the same as the Royal Blue described at the right only equipped with lco motor specially wound to pick up rting load automatically, Thermotron erload protector, starting switch, belt ard. Automatic belt tightener permits tor to bring machine up to speed without use of crank. **Shipped from Baltiore or Albany.** Wts. 142 lbs., 185 lbs. ate voltage, cycles, A.C. or D.C.
7 A 4732—Bench Model..... **$61.00**
7 A 4733—Floor Model..... **68.50**

Alloy Bearings—Tinned Disks

- **Skims 225 Lbs. of Milk per Hour**—35 quarts in 20 minutes. Handles milk of two or three cows. Will skim goats' milk.
- **Self-Balancing Bowl—Tinned Steel 26-Gauge Disks**—Efficient. Leaves less than ½ oz. of butterfat in 100 lbs. of skim milk.
- **Open Spouts**—Easily kept shining and spotless, free from germs and dirt. Heavy gauge steel tinware, tinned after forming. Joints soldered inside and out.
- **Cream Screw** adjusts from 16 to 55% test butterfat.
- **21 in. High**—4½-in. varnished hardwood handle.
- **Strong Rugged Construction** throughout entire separator. Every part oversize, heavy duty.

$19.95 Cash
$3 A MONTH

Compare both machines—Wards and the *only other* American Made Table Model Separator . . . check them point for point and feature against feature! Prove Wards superiority yourself, in the table above or by actual use in your own home—see why you can't get a better value even if you pay up to $25. Weight means strength, long life—in Wards the Supply Can steel is 52% heavier; Tinware 12% heavier; Bowl Steel 37% thicker; Disks 20% heavier. A 42% larger float means more even feed, with no splashing or overflowing. New open spouts clean easier, save time. Careful, precision construction means *maintained* skimming efficiency. *The whole machine is heavier, stronger—lasts longer.* It's America's best buy in a Table Model Separator—and you'll never miss the low monthly payments when you use Wards Time Payment Plan. See Inside Back Cover for details. Shipped complete with Bowl Brush, Spout Brush, Bowl Wrench, Bowl Vise, Cream Screw Wrench, Disk Washing Rack, Lag Screws, Oil, Instructions, and Wards Registered Guarantee of Service. Smooth-enameled blue finish. No wonder Wards sold 16,000 last year alone—and every one went to an enthusiastic customer. If you have been settling your milk in ice or cold water, then Wards Table Model will soon pay for itself in extra cream saved! *Mailable.* **Shipped from Stock** in Baltimore, Albany or Pittsburgh. For Time Payments see Inside Back Cover.
P487 A 4607—Shipping weight 38 pounds. Cash Price ... **$19.95**

Use Wards 30 Day Trial Offer! Because we feel Wards Separators are superior in every way, we want you to try one in your own home. Order in the usual way sending a small down payment or the cash price. If it does not satisfy you in every way—return it and we will refund every cent you have paid.

Finest Table Model Made!

The Table Model Separator that gives you the *most of everything*—the *most quality*, the *most features*. For $20 more elsewhere, you couldn't get all this.

$29.95 Cash
$4 A MONTH

- **Most Stainless Steel**—All the Skimming Disks, plus distributor—*everything inside the bowl.* Rust-proof, acid-proof, sanitary, easily washed, stronger.
- **Most Capacity**—Skims 300 lbs. per hr.—46 qts. in 20 minutes.
- **Most Ease of Turning**—Ball Bearing at top of spindle, Thrust Ball Bearing at bottom—starts quicker, turns easier, does all your separating with less effort.
- **Most Streamlined**—Surfaces smooth, edges rounded, richly enameled. New open spouts—easier to clean, more sanitary.
- **Most Performance**—Matches every superiority of the machine at the left, plus all the extra features described above. You won't find its features anywhere else except in big floor model separators. Opalescent finish. Complete with brushes, wrench, vise, disk rack, oil, and Guarantee. Use your Credit to buy this Separator on Wards Time Payment Plan. See Inside Back Cover for Complete Details.
Shipped from Stock in Baltimore, Albany or Pittsburgh. *Mailable.*

P487 A 4610—Shipping weight 47 lbs. Cash **$29.95**

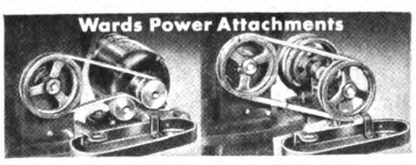


3 FOR **20c**

Separator Bowl Rings
fit any Ward Royal lue, Zephyrator, or attley machine. In ordering, state name and umber of your separator and serial number which is on bowl bowl housing. Ship. t., three, 4 oz.
7 A 4660 — Three ngs for 20c

Separator Oil
A 7452X — 1 qt. ip. wt. 3 lbs. 18c
A 7486X — ½ gal. ip. wt. 5 lbs. 32c

Wards Power Attachments



Electric Drive

With Delco ¼-H.P. motor wound to pick up starting load automatically. Belt and pulley to connect to separator pinion. **State** Serial No., volts, cycles, D.C. or A.C. Wt. 44 lbs. **Mailed from Stock.**
487 A 4644 — For Alloy Bearing Royal Blue **$18.95**
487 A 4744 — For Wards Zephyrator S-4. .... **$19.50**
487 A 4745 — For Zephyrators S-6 and S-8. **$19.50**
Attachment Only (No motor.) Ship. wt. 17 lbs.
487 A 4743 — For Wards Zephyrators S-4. .... **$8.00**
487 A 4746 — For Zephyrators S-6 and S-8. **$8.00**

Engine Drive

For Wards Floor Model Separators (not bench machines). Fasten to drip shelf. Complete with set of tight and loose pulleys for belt from engine; also leather belt and flange pulley for transmitting power to separator pinion. In ordering, *State Serial Number of Separator.* **Shipped from Factory** in Springfield, Ill. in 5 days extra. Wt. 24 lbs.
M287 A 4654—For Ball Bearing Royal Blue Separators **$12.95**
M287 A 4649—For Alloy Bearing Royal Blue **$12.75**
M287 A 4747—For Wards Zephyrators **$12.45**

WARDS ALWAYS HAVE REPAIR PARTS



(A) Royal Blue Rebuilt Bowls

or Royal Blues, serial nos. above 1,000 with tinned disks. Send old bowl d disks, with exchange price—or ll price (with serial no. of your maine) for rebuilt bowl and refund check deemable when old bowl is received.

Article Number	Cap. Lbs.	Wt. Lbs.	Exchange Price	Full Price
587A4695	225	4	$7.00	$10.25
587A4696	375	6	10.50	17.50
587A4697	500	7	11.25	18.75
587A4698	800	9	12.75	21.75

Royal Blue Separator Parts

(B) Tinned Steel Bowl Disks. Shipping weight each, 4 oz.
7 A 4687 — For Nos. 35, 37, 45, and 47. Each **25c**
7 A 4689 — For Nos. 39, 49, 59. 25c
7 A 4623 — For No. 33. Each .. 20c

(C) Top Disks, with Cream Screw Shipping weight, each, 8 ounces.
7 A 4658—For No. 33. Ea. 80c
7 A 4659—For Nos. 35 and 55. Ea. $1.00
7 A 4673—For Nos. 37 and 57. Ea. 1.00
7 A 4674—For Nos. 39 and 59. Ea. 1.25

(D) Milk Regulating Float
87 A 4683 — For Numbers 33 and 43. Ship. wt. each 8 oz. Each. 50c
7 A 4684—For Nos. 35, 37, 39, 45, 47, 49, 55, 57 and 59. Wt. 1 lb. 4 oz. Ea. .50c

(E) Alloy Neck Bearing and Spring.
87 A 4690 — For No. 33. Shipping weight, each, 6 ounces. Each $1.00
87 A 4691 — For Numbers 35, 37 and 39. Ship. wt. each, 10 oz. Each $1.50

(F) Side Lever Faucet.
87 A 4648—For Numbers 33 and 43. Ship. wt. 6 oz. Each. 50c

(G) Bowl Nut. Ship. wt. 2 oz.
87 A 4633—For Nos. 33, 43. Ea. 50c
87 A 4634—For Nos. 35, 37, 45, 47, 55 and 57. Each 60c

(H) Neck Bearing Spring.
87 A 4692—For Number 33. Shipping weight, each, 2 ounces. Each 25c
87 A 4693—For Numbers 35, 37 and 39. Ship. wt. each 2 oz. Each. 50c
87 A 4694—For Numbers 45, 47 and 49. Ship. wt. each 6 oz. Each. 50c

(J) Ball Bearing Neck Bearing Assembly. Ship. wt. 5 oz., 8 oz.
87 A 4688 — For Numbers 45, 47, 49, 55, 57 and 59. Each. $2.50
87 A 4624—For No. 43. Each 2.00

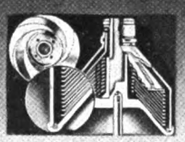
(K) Cream Screw Wrench.
87 A 4628—For Numbers 33, 43. Ship. wt. 2 oz. Each. 10c
87 A 4629—For Numbers 35, 37, 39, 45, 47, 49, 55, 57 and 59. Wt. 2 oz. Each. 10c

Cream Screw. (Not Pictured)
87 A 4685—For Nos. 33 and 43. Ship. wt. 2 oz. Each. 10c
87 A 4686—For Nos. 35, 37, 39, 45, 47, 49, 55, 57 and 59. Wt. 2 oz. Each. 10c

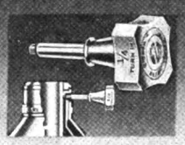
Wards Zephyrator Gives You More Cream with Less Effort



With Hi-Speed Ball Bearings that make Zephyrator 30 to 39% easier starting—20% easier turning!



With Zephyr-Flo Bowl that gets *all* the cream from rich milk or lean—at higher or lower temperatures.



With Finger-Tip Cream Control. Adjustable for any density. Banishes guesswork of cream screw adjustment.

America's Most Popular Separator

- **Skims Closer—By Test!** Practically perfect—skims within 3/100 of 1%—leaves less than a teaspoon of butterfat in 4 gallons of skim milk!
- **Turns Easier—By Test!** Testing machine proves that Zephyrator turns as easily when actually separating as many separators turn when empty. Finer, more expensive bearings—machine cut precision gears running in a constant oil bath—rugged, oversize spindle.
- **Cleans Better—By Trial!** 900 reports from actual users praise Zephyrator's easier cleaning, its dozen new convenience and work-saving features.

Here's the Top Quality machine of America's leading line of Separators! Zephyrator starts where other separators leave off—gives you performance and features not found in any other single make, *regardless of price!* It gives you closer skimming under all normal conditions—extra profits with milk of varying richness—and gives you its *bigger cream checks* with easier turning and less effort. You can buy on time—see inside back cover for details.

Pays for Itself with Extra Cream. Zephyrator was sent to 2 Universities and tested in every possible way for construction, efficiency, performance. Tests were made *far beyond normal operating conditions* with rich milk or lean—set for high or low test cream. ZEPHYRATOR proved itself! In dozens of factory tests the milk has never contained more than 3/100 of 1% butterfat—even with milk as cool as 60°.

Largest Disk Area of 7 Leading Makes—gives you even, dependable skimming. Zephyrator's more accurate Cream Control, with its definite starting point for adjusting the cream screw, avoids clogging, and lets you *know* you'll get the cream thickness you want. The large cream and milk bowl channels eliminate overflow and remixing of butterfat and skim milk.

Most Stainless Steel—All disks, including the cream disk are stainless steel. Also welded spacers, Distributor, regulating float and bowl nut.

New! Open Spouts—clean easier, prevent clogging. Formed with circular bands from continuous steel strip.

"Tell-Tale" Timer—Clicks twice if turned too slow—once for correct speed—is silent if turned too fast.

Non-Stoop Drain Pan—Located under drip shelf where it can be emptied in a jiffy. Catches oil or milk.

Adjustable Shelf—Takes any of 3 positions for any size cream can. Swings right or left.

6-Gal. Non-Tip Supply Tank—Rest a pail of milk on it without danger of tipping. Turn it ¼ turn to unlock it or remove tinware. Women Prefer the New Convenience Features. Dozens of farm women tried the Zephyrator in their own homes.

All agreed Zephyrator skims Easier—Quieter—Closer—Longer—takes less time to clean. You too will appreciate its New Metallic Gray Baked Finish—6 coats make it resistant to oil, water, milk, washing solutions.

ELECTRIC MODEL
LOW AS
$79.00 Cash
$7 A MONTH

HAND MODEL
LOW AS
$60.00 Cash
$6 A MONTH

Hand Model

Complete with full instructions, wrench, oil, bowl vise, disk holder, and Ward Registered Guarantee. **Shipped from Stock** in Baltimore or Albany. Order from nearer House. In ordering Electric Models **state** voltage, cycles, and whether A.C. or D.C.

Milk Capacities		Hand Operated			Electric Operated		
Per Hr.	20 Min.	Article Number	Wt. Lbs.	Price	Article Number	Wt. Lbs.	Price
400-Lb.	65 qts.	187 A 4734	155	$67.50	187 A 4735	200	$86.50
600-Lb.	95 qts.	187 A 4736	164	77.00	187 A 4737	209	96.00
800-Lb.	125 qts.	187 A 4738	164	84.50	187 A 4739	209	103.50
Same as Zephyrator above except with Tinned Steel Bowl parts and float and with Black Baked-On Enamel Finish							
400-Lb.	65 qts.	187 A 4754	155	$60.00	187 A 4755	200	$79.00
600-Lb.	95 qts.	187 A 4756	164	68.95	187 A 4757	209	87.95
800-Lb.	125 qts.	187 A 4758	164	72.95	187 A 4759	209	91.95

Buy Zephyrator on Credit. Let Increased Cream Checks Pay for it.
See Inside Back Cover for Details.

BA WARDS 1121

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WARDS As Low As **26c** For 100

NO FINER DISKS MADE
Essential for Grade "A" Milk

J & J As Low As **28c** For 100

Wards Speedy-Flow—Johnson & Johnson Rapid-Flo Buy the best on the market—no other disks filter more quickly, more thoroughly or more uniformly.

100% American white cotton—non-absorbent and long-fibered. Processed and compressed for faster, cleaner filtering. A disk filters 40 qts. before replacing. **More cotton**—means more thorough filtration. 300 Speedy-Flow or Rapid-Flo Disks weigh as much as 437 bargain disks. Thorough filtration means clean milk. **Uniform weight**—the variance between disks is guaranteed to be no more than one two-hundred-and-twentieth of *one* ounce. The quality of your milk will never vary. **No thin spots**—no matting—no clogging. Produced under more sanitary conditions than those demanded by any State Code. Wts. per 100: 6-in. 14 oz.; 6½-in. 1 lb.

WARDS SPEEDY-FLOW

Diam.	No.	Natural Art. No.	Natural Price	Gauze-Faced Art. No.	Gauze-Faced Price
6 -in	100	87 A 4352	28c	87 A 4356	42c
6 -in	300	87 A 4353	75c	87 A 4357	$1.23
6½-in.	100	87 A 4348	31c	87 A 4345	48c
6½-in.	300	87 A 4349	90c	87 A 4347	$1.41

J & J RAPID FLO

Diam.	No.	Natural Art. No.	Natural Price	Gauze-Faced Art. No.	Gauze-Faced Price
6 -in	100	87 A 4415	28c	87 A 4428	44c
6 -in	300	87 A 4415	81c	87 A 4428	$1.29
6½-in.	100	87 A 4416	33c	87 A 4429	49c
6½-in.	300	87 A 4416	93c	87 A 4429	$1.45

Wards Economy Quality Filter Disks

The most economical home Filter Disks you can buy. Good grade 100% American white cotton—not cheap wadding. They filter more thoroughly, quickly and cleanly than cheese cloth or flannel. Excellent for filtering small quantities of milk for home use—also for straining soups, jellies or cooking oils. **18c** 100 In lots of 300

For Grade "A" milk filtration see disks at left. Diam. 6 inches. Shipping weights 100, 14 oz.; 300, 1 lb. 6 oz.

87 A 4393—100.... 19c
87 A 4394—300.... 54c



Seamless 20-Gauge Milk-Can Steel

$2.59

- Meets All Dairy Code Inspections.
- Retinned to Mirror-smooth Finish.
- Bayonet Lock Holds Disk Firmly.
- 14-Quart Capacity.

Sanitary—easy to keep clean. Handle for easy removal of Plate and Disk. Perforated top plate prevents milk washing holes in filter disk. Heavy, tinned milk-can steel—easy-lift carrying handles securely electro-welded to body. Use 587 A 4367 in wide neck milk cans only.

587 A 4368—For 6-in. disks. Wt. 6 lbs. 12 oz. **$2.59**
587 A 4367—For 6½-in. disks. Ship. wt. 8 lbs. **$2.98**

Good Quality Tinned Steel

$1.79

- Seamless Type.
- Kwik-Twist Lock.
- Surface Retinned.
- 12-Qt. Capacity.

Seamless milk can steel—sanitary, easy to clean. No joints to trap germs, contaminate milk. "Kwik-Twist" 1-piece locking plate holds 6-in. filter disk firmly—no spring wire needed. Electro-welded handle. No loose bottom. Wt. 5¼ lbs.

587 A 4365.. **$1.79**

587A4366—Strainer with 100 Filter Disks No. 87 A 4415 at left. Ship. wt. 7 lbs..... **$2.03**

26-Gauge Charcoal Tinplate

98c

- Smooth Soldered.
- Spring Lock.
- For 6-inch Disks.
- 14-Qt. Capacity.

Not so heavy as Tinned Steel strainer at left, but a real bargain at Wards low price. Seams soldered smooth. Spring wire and perforated plate hold 6-inch cotton filter disk securely. Convenient carrying handle. Fits any milk can. Ship. wts. 3 lbs. 12 oz., 4 lbs. 12 oz.

587 A 4374.... **98c**

587 A 4378—Strainer with 100 No. 87 A 4415 Filter Disks... **$1.22**

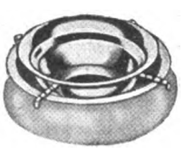
Wire Gauz Strainer

46c

- Seamless.
- Built-in Scr
- Retinned.
- 5-Qt. Capa

Here's a Str that you'd ex to pay a lot for elsewh Seamless. S bright tinplate *tinned* to a rust. Bowl d in one piece seams or cre —easy to clean. Built-in in. diam. m brass screen H ing hole in r Ship. wt. 2 lbs.

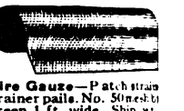
587 A 4359—Each.....



Separator Supply Tank Strainer

Removes hair and chaff. Fits *any* separator supply tank. Tinplate 28-gauge—bulging ridged walls make it splash-proof. 4½-in. diam. brass mesh strainer. Low pouring height makes filling easy. Shallow bottom above milk level in separator tank—keeps the sediment from dissolving in the milk. Ship. wt. 2 lbs.

587 A 4384..... **99c**



Wire Gauze—Patch strain strainer pails. No. 50 mesh-b screen 1 ft. wide. Ship. wt. ft. 4 oz.; 5 ft. 1 lb. 2 oz.

687 A 4403—Run. ft...

5-foot Roll..... $1

DAIRY PAILS FOR EVERY PURPOSE . . . Include Them in Your Time Payment Order



Seamless, Sanitary Pails Meet All Dairy Codes

Open Top **$1.95** 12-qt.

The finest type of Pails made—*meet sanitary laws of every state.* Built entirely from one piece of heavy, durable milk-can steel, without a single seam or crevice to catch dirt or bacteria and cause low grade milk. Heavy flat buttons on bottom keep pails off the floor. Edges rolled around strong wire hoop. Welded lugs rest on your knees—handle at back makes pouring easier. Hooded pail complies with code requirements. Welded into 1-piece seamless unit—fish-mouth opening 8⅜ by 5⅜ in.

Open Top Seamless Pail

Article No.	Size	Ship. Wt.	Each	Two
587 A 4256	12-qt.	5 lbs. 4 oz.	$1.95	$3.70
587 A 4257	14-qt.	5 lbs. 4 oz.	2.00	3.90

Hooded Top Seamless Pail

587 A 4255 | 14-qt. | 5 lbs. 8 oz. | $3.50 | $6.80

Square Pails 49c Ea.

Easier to use than any Pails you've tried.
It Milks Better—right shape to hold—won't slip.
It Carries Better—flat sides—keeps weight close to your body.
It Pours Better—corners are natural spouts; pour as fine a stream as you wish.
It Cleans Better—won't roll around while scrubbing.

Full 12-qt. capacity. Made of 135-lb. bright coke tinplate, reinforced at rim with heavy wire. Ears securely riveted—raised bottom. Ship. wt. ea. 3 lbs.

487 A 4329—Each... 49c
Two for..... 93c

Standard Quality LOW AS **32c Ea.**

Lowest price for a *good* Pail. Wire bail with comfortable wood grip. Inside seams smooth soldered. Bright, stiff coke tinplate—rust resistant. Strong raised bottoms. Buy three pails at one time for lower shipping cost. Ship. wts. each, 2 lbs., 2 lbs. 4 oz., 2 lbs. 6 oz.

Article No.	Size	Each	Three
487 A 4314	10-qt.	32c	93c
487 A 4317	12-qt.	41c	$1.19
487 A 4334	14-qt.	45c	1.30

Medium Quality LOW AS **47c Ea.**

Heavier, longer lasting steel and thicker, more rust-resistant tinplating than Pails at left. All inseam seams are well soldered—ears securely riveted to body. Strong raised bottoms for extra strength and rigidity. Heavy, tinned bail.

Open Top—reinforced rim

Article No.	Size	Ship. wt.	Each	Three
487A4328	12-qt.	2 lbs. 12 oz.	47c	$1.35
487A4339	14-qt.	3 lbs.	51c	1.48

Hooded Top—three-quarter covered

587A4350	12-qt.	4 lbs. 8 oz.	$1.12	$3.25
587A4351	14-qt.	5 lbs.	1.20	3.45

Heavy Quality

Second only to Wards Seamless Pails. All seams are soldered flush, inside and out—no crevices or joints to trap bacteria. Complies with dairy codes where seam pails are not demanded. Heavier steel, and th tinplating than pails at left. Riveted and sold ears. Strong raised bottom. Heavy tinned wire

Heavy Quality Open Top Pails (at right)

Article No.	Size	Ship. wt.	Each	Th
487 A 4322	12-qt.	3 lbs.	71c	$2
487 A 4323	14-qt.	3 lbs.	75c	2.1

Heavy Quality Swiss Type Pail (at left)

587 A 4324	13-qt.	3 lbs. 3 oz.	85c	$2.4
587 A 4325	17-qt.	3 lbs. 14 oz.	93c	2.8



Waterproof Apron **$1.22**

For any sloppy work. 3-Ply—layers of Suede cloth, rubber, cotton flannel. Adjustable fit. 35 by 42 in.

87 A 4401—Ship. wt. 1 lb. 8 oz. **$1.22**

Oiled Yellow Duck Apron

Heavy duck cloth for hard work. Longer wearing. 36 by 47 in.

87 A 4404—Wt. 2 lbs. 8 oz..... **$1.49**



Wyandotte Cleaner

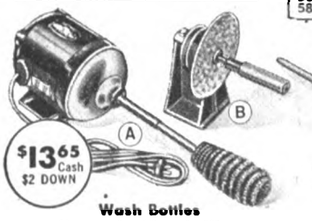
Cleans thoroughly. No lye. 1 cup to 10 gals. Wt. 2 lbs. 4 oz.

87 A 4398—2 pounds..... 15c

Wyandotte Steri-Chlor

Sterilizes, deodorizes. ½-oz. to 1 gal. Wts. 2 lbs. 4 oz., 6 lbs.

87 A 4395—2 pounds..... 75c
87 A 4396—5 pounds.... $1.75



Wash Bottles
Faster the Electric Way

(A) Washes up to 50 milk bottles a minute—saves hours of needless effort in dairy work. Splashboard is rust proof, acid proof. Stainless Steel—as easy to clean as a china dish. Famous Delco ¼ H.P. motor *won't overheat*—built to stand up under hour after hour of continuous operation. 110 volt, 60 cycle A.C.; with 10-ft. rubber cord and plug. With 87 A 4547 brush. Terms Inside Back Cover. **Shipped from Stock** in Baltimore or Albany. *Mailable.*

487 A 4545—Ship. wt. 40 lbs... $13.65



(B) Belt Drive Bottle Washer

5½-inch standard brass chuck. 7-in. galvanized splasher disk. Hard, bronze bearings. 3½-in. V-belt (size A) pulley. Heavy cast iron base, 4½ by 4¼ in. Can be bolted to table and belted to motor at side or above. Use machine-type brush at right (not included). Ship. wt. 8 lbs. 3 oz.

87A 4546—Each..... $4.35

(C) Machine-Type Brush Australian Horse Hair

Brush part 6 in. long. Ship. wt. 5 oz.

Art. No.	Handle	Taper	Each
87A 4547	5½ in	3 to 2¼ in.	42c
87A 4548	4 in.	3 to 2½ in.	41c

Hand-Type Brush

(D) Chinese bristles; 6½ in. brush tapered 2¾ to 2½ in. 9-in. handle. Ship. wt. 5 oz.

87 A 4549—Each..... 35c

Oval Bottle Brush

(E) Stiff Horsehair bristles, tapered from 2½ to 1⅞ in. Brush part 5 in. long. 11½-in. handle. Ship. wts. 4 oz., 12 oz.

87 A 4372—Each..... 13c
87 A 4373—Three for..... 36c

Utility Swab Brush

(J) Rounded 2¼-in. Palme Fibers. For cleaning milk or pails—flared bristles rea the corners, scrub clean. Sm 8¼ by 2¾-in. wood block.

87 A 4542—Wt. 12 oz. Ea.

Winged Brush

(L) Palmetto fiber center 1⅛ in. long; wings length 9¼ in. Reaches all cor and crevices. Lacquered Bl 6¾ by 2½ inches.

87 A 4540—Wt. 12 oz. Ea.

Dairy Sets

(G) 9-in. test tube brush; bottle brush; 13¾-in. rator brush. Ship. wt. 8 oz.

87 A 4360—Set of 3.....



Supreme Quality Setting Cans

85c 14 Qt.

Supreme quality 175-lb. 26-Ga. tinned sheet steel. (See Pails.) Heavier steel, thicker tinplating than Cans at right. Inside seams soldered flush—No crevices. Deep, 2-in. outside cover is submergible. Coppered bail and wood handle. 14-qt. size holds 12½ qts., 20-qt. size holds 18½ qts.

487 A 4250—14-Qt. Can. Ship wt. 5 lbs. **85c**
487 A 4251—20-Qt. Can. Ship wt. 6 lbs. **98c**

Standard Quality Setting Cans

61c 14 Qt

Standard quality 128-Lb. 29-ga. tinned steel. (See Pails above.) Inside seams soldered flush to eliminate crevices. Outside cover fits tight to permit submerging in cold water. Coppered wire bail has wood handle. 14-Qt. Trade Size holds 13 qts.; 20-Qt. Size holds 19½ qts.

487 A 4310- 14-Qt. Ship. wt. 4 lbs. **61c**
487 A 4312—20-Qt. Ship. wt. 4 lbs.. **75c**

Inside Cover Setting Cans

72c 14 Qt.

Superior quality 135 lb. 28-ga. tinned steel (see above.) All inside seams soldered smooth to eliminate crevices. Tight-fitting cover with lifting handle. Right height for separator. Wire bail—wood grip. 14-Quart Trade Size holds 13 qts.

587 A 4315 — One Can. Shipping weight 3 lbs. 4 oz..... 72c

487A4316 — Three Cans. Shipping wt. 10 lbs. 12 oz.... $1.89

Reinforced Milk Kettles

$1.23 4 Qt.

Supreme quality 175-lb. 26 ga. tinned steel (See above.) Breast and neck are stamped from one sheet of steel. Reinforced bottom. Riveted ears. Seamless plug cover. Actual capacities given.

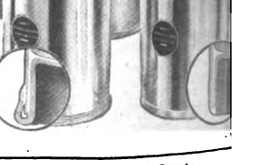
587 A 4379—4 Qt. Wt. 3 lbs.... $1.23
587 A 4381—8-Qt. Wt. 4 lbs..... $1.62
487 A 4382—12-Qt. Wt. 5 lbs.... $2.05
487 A 4383—20-Qt. Wt. 6 lbs..... $2.69

"Can't Leak" SANITARY MILK CANS

With Plug Cover **$3.80** 5-Gal.

Compare These Features!

- 1 Piece Neck and Breast Solar Welded (Not Soldered) to Cylinder
- Surface of 99.95% Pure Straits Tin—Sanitary Welded Seams



Strong! Sanitary! Bottom, cylinder fused together under tremendous pressure and soldered. Prevents leaks, solder cracks—Leak tested under 25 lbs. air pressure. Heavy tinned—resists rust. Pressed steel handles electro-welded to body. (New York style has drop handles). Plug cover overhangs edge (see right). 6½-in. neck. New York style (shown farthest right) with umbrella cover only.

NEW YORK PATTERN—With Umbrella Cover and Drop Handles.
7¼" Neck on 8 and 10 Gal. sizes.

SOLDERED BOTTOM

Article Number	Cap. Gals.	Actual Wt.	Ship. Wt.	Price Each
487 A 4290	5	17 lbs.	17 lbs.	$4.45
487 A 4291	8	26 lbs.	26 lbs.	5.85
487 A 4292	10	29 lbs.	29 lbs.	6.10

SEAMLESS AND SOLDERLESS—Meets New York State Requirements

487 A 4479	5	18½ lbs.	20 lbs.	$5.15
487 A 4480	10	30½ lbs.	32 lbs.	6.85

PLUG COVER—Standard Grade

Article Number	Cap. Gals.	Actual Wt.	Ship. Wt.	Price Each
487 A 4294	5	13 lbs.	13 lbs.	$3.80
487 A 4295	8	17 lbs.	19 lbs.	4.65
487 A 4296	10	18½ lbs.	19 lbs.	4.85

UMBRELLA COVER—Standard Grade

487 A 4297	5	14 lbs.	14 lbs.	$4.10
487 A 4298	8	18 lbs.	20 lbs.	4.95
487 A 4299	10	19½ lbs.	21 lbs.	5.15

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WARDS GRAVITY

Cream Separators



$3.95 10 Gallon

$6.90 4 Gallon



Dilution-Type Separator

Quicker, more sanitary than old-fashioned settling and skimming process. Just add cold water or ice to milk in equal parts—diluted milk separates in 3 to 4 hours. Deep cone bottom allows milk to be drawn off before cream reaches bottom. Two glass gauges show creamline. Heavy 175-lb. charcoal tinplate, locknamed and soldered. Reversible cover has 60-mesh brass wire screen for straining. Removable hardwood legs. Green enamel finish. Av. height 40 in. Metal can, given *18-Gal. size Not Mailable.* **Shipped from** Baltimore, Albany or Pittsburgh.

187 A 4245—10-gallon. Ship. wt. 12 lbs. **$3.95**
187 A 4246—14-gallon. Ship. wt. 13 lbs. **4.80**
187 A 4247—18-gal. Ship. wt. 21 lbs. . . . **5.75**

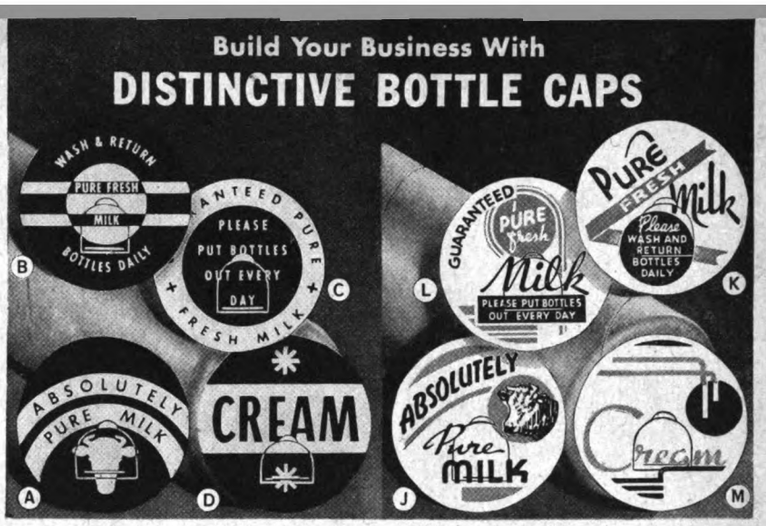
Cold Water Separator

Milk chills and separates in 4 to 6 hours—is not diluted. Cold water circulates between galvanized steel outer shell and charcoal tin inner milk can—keeps milk at even, low temperature. Center tube in milk can assures more rapid separation. Removable glass gauge shows cream line. Deep cover has sanitary wire strainer—detaches easily for cleaning. Separate plated brass faucets for water and milk. Galvanized finish with Blue and Gilt trim protects separator from rust.

487 A 4258—Milk Capacity 4 gallons; water capacity 8½ gallons. Ship. wt. 14 lbs. **$6.90**
487 A 4259—Milk Capacity 8 gallons; water capacity 12½ gallons. Ship. wt. 19 lbs. **8.10**
187 A 4260—Milk Capacity 12 gallons; water capacity 17¼ gallons. Ship. wt. 23 lbs. **9.10**

Build Your Business With

DISTINCTIVE BOTTLE CAPS





Hardwood Crates

32-Qt. **$1.95** Each in lots of 6

All-ironed standard size—protected at all wearing points. Metal parts galvanized—won't rust. Riveted cross wires. Smooth hardwood won't splinter. Shp. wt. ea., 14 lbs. *Quantities of 6 Not Mailable.*

187 A 4430—12-qt. **$2.00**
187 A 4432—6 for. . **11.70**
187 A 4431—20-pt. **2.03**
187 A 4433—6 for . . **11.85**



Wire Crates

$2.15 12-Qts.

Lighter—easier to carry. Strong construction—heavy, tinned steel wires are electro-welded, not soldered. Ship. wt. ea. 11 lbs.

With 3 Dividers

487 A 4435—12 Qts. **$2.15**

With 2 Dividers

487A4488—12 Qts. **$2.05**
487A4436—20 Pts. **2.10**
487A4489—30 ½-Pts. **2.15**



Bottle Carrier

69c 6 Qts.

"Easy Grip" electro-welded coiled handle—easier to carry. Rigidly constructed of heavy tinned steel wire. Joints are electrically welded—not soldered. . . . won't pull apart.

487 A 4385—Holds 6 qts. Ship. wt. 2 lbs. **69c**
487 A 4487—Holds 8 qts. Ship. wt. 4 lbs. **$1.15**



Milk Stool

89c Ea.

Lightweight, but strong—will hold a 200-pound person. Channel steel legs; two triangle braces. 9½-inch seat. Green enamel—easily cleaned. Height 12 in. Ship. wt. 5 lbs.

487 A 4399—Each. **89c**

WARDS STANDARD CAPS

Are Cream-Colored—
Good Quality at Low Prices!

28c For 500

- **Select Quality Sprucewood board base.**
- **Bright one-color (red or blue) designs.**
- **Sanitary—Caps Never Touched by Hands.**
- **Regular or Stapled Tab-Pull Style.**

Clean, crisp caps—attractively colored and designed—will make your customers remember your milk! Made of select quality, cream-colored spruce—paraffined on both sides to protect milk from moisture and water. Tab-pull caps are reinforced with wire staples—won't pull out. Caps fit No. 2 bottles. Milk caps A, B, C come in red only. Cream cap D in blue only. **State choice of regular or tab-pull, and select design by key letter A, B, C, D.**

Article No.	No. Caps	Ship. wts.	Regular	Tab-Pull
87 A 4411	500	1 lb. 10 oz.	28c	33c
587 A 4412	5,000	15 lbs.	$2.70	$3.20
487 A 4413	10,000	30 lbs.	5.35	6.35

WARDS SUPREME CAPS

Are Gleaming White—
Finest Quality You Can Buy

29c For 500

- **Pure White Sulphite layer on Printed Side.**
- **Highest Quality pure Sprucewood board.**
- **New, Brilliant Designs are Two-Colored.**
- **Sanitary—Regular or Stapled Tab-Pull.**

These gleaming white, brightly colored bottle caps give an extra-quality appearance to your dairy products. The layer of white sulphite adds brilliance to the design and lettering. The designs are created exclusively for Wards—printed in red and blue waxset inks that won't run.

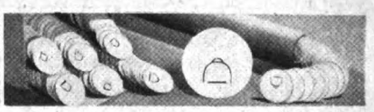
Best Quality sprucewood board—well coated with highly refined pure paraffin wax. Fit No. 2 bottles. Select design by key letter J, K, L or M. **Be sure to state Regular or Tab-Pull.**

A-rticle No.	No. caps	Ship. wts.	Regular	Tab-Pull
87 A 4421	500	1 lb. 10 oz.	29c	33c
587 A 4422	5,000	15 lbs.	$2.85	$3.25
487 A 4423	10,000	30 lbs.	5.65	6.45



Made-to-Order Caps

Your own dairy name on bottle caps means bigger profits for you. Show that your products are backed by your name and reputation—remind customers of your dairy when they're ordering milk and cream. 31 modern designs—brilliantly printed in blue and red on Wards Supreme or Standard Quality Caps. Room for name, address, phone number. Write for FREE circulars.

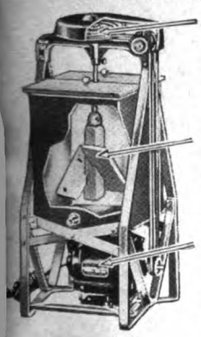


Unprinted Bottle Caps

Standard Quality described above at left. In cartons of 1000 for hand capping or tubes of 500 for machines. Use only where state laws permit.

87 A 4417— 500 Regular. Wt. 1 lb. 10 oz. . . **25c**
87 A 4418— 500 Tab-Pull. Wt. 1 lb. 10 oz. . . . **28c**
87 A 4410—1000 Regular. Wt. 2 lbs. 12 oz. . . . **49c**
87 A 4420—1000 Tab-Pull. Wt. 2 lbs. 12 oz. . . **55c**

ELECTRIC CHURNS Do the Work for You



Noiseless belt drive turns dasher at steady, even speed. All pulleys are rust-proof and fully enclosed.

Hardwood maple dasher with two big, non-absorbent blades. Easily removed for cleaning.

Powerful ¼-H.P. Motor mounted on adjustable motor base—keeps belt at proper tension.

$18.98 CASH

4-Gal.—With Motor $2.50 DOWN

Churn *all* the butter you need with no effort at all—you can even make enough to sell to neighbors! Powerful, rugged, ¼-H.P. Motor uses little current—won't overheat—gives years of trouble-free service. Belt stays tight—paddles turn at proper speed for most efficient operation. Churns ½ capacity of container. Charcoal tinned container with drain easily removed. Rigid, unbreakable steel frame painted aluminum—won't rust. *Buy the size you need*—larger sizes add little or nothing to your monthly payments. See Inside Back Cover. *4-Gal. and 6-Gal. sizes Mailable.*

With 110–120 volt, A. C. Motor, 7½-ft. cord and plug.

387 A 4235—4-Gal. Size. Ship. wt. 57 lbs. **$18.98**
387 A 4236—6-Gal. Size. Ship. wt. 59 lbs. **20.95**
187 A 4237—10-Gal. Size. *Not Mailable.* Wt. 68 lbs. **25.00**

Without Motor—but with 1½-in. diameter pulley to fit ½-in. motor shaft; support, leather belt. *Mailable.*

487 A 4219—4-Gal. Size. Ship. wt. 33 lbs. **$11.98**
487 A 4220—6-Gal. Size. Ship. wt. 35 lbs. . . **$13.95**
487 A 4221—10-Gal. Size. Ship. wt. 44 lbs. . . **18.00**



Butterfly Churn **$1.55**

Makes butter in 10 minutes. Heavy tinplate container is rust resisting—easy to clean—won't break even if dropped. Galvanized malleable iron gears and handle. Hard maple dasher. Easy turning crank churns at capacity—butter does not have metallic taste. Ship. wt. 4¼ lbs.

187 A 4213—5-quart. *Mailable* **$1.55**



Cylinder Churns **$4.05** 3-Gal.

Made of white cedar, bound by galvanized steel hoops. 4-paddle maple dasher churns ½ capacity—crank locks to churn. Easy to scald, clean. Sturdy supporting legs. *Mailable.*

487 A 4226—3 gal. Wt. 13 lbs. . . . **$4.05**
487 A 4227—4 gal. Wt. 17 lbs. . . . **4.79**
487 A 4228—7 gal. Wt. 21 lbs. . . . **5.65**



Hand Model Churn **$3.19** 2-Gal.

Churns butter in 8 to 10 minutes. Charcoal tin container with removable 4-paddle maple dasher. Cast gears; steel frame. Churns ½ capacity. *Mailable.*

587 A 4215—2-gal. size. Ship. wt. 8 lbs. 4 oz. . **$3.19**
487 A 4216—3-gal size. Ship. wt. 13 lbs. **$4.05**
487 A 4217—4-gal. size. Ship. wt. 15 lbs. **4.50**
487 A 4218—6-gal. size. Ship. wt. 19 lbs. **5.55**



$7.35 6-Gallon

Oak Barrel Churn

Strong, heavy frame of seasoned white oak. Barrel varnished, bound with steel hoops. Window in top shows when butter is well churned. Galvanized castings. Cork gasket makes tight, leak-proof fit. *Mailable.*

Article Number	Cap Gal.	Churn Gal.	Wt. Lbs.	Price Each
387A4200	6	3	30	$7.35
387A4201	10	5	35	8.25
387A4202	15	7	40	9.25
387A4203	20	10	50	11.25



Flint Glass Milk Bottles

- **Perfectly Shaped, Uniform Size Molded Cap Seats.**
- **Annealed for Extra Toughness, Smooth Finish.**
- **Capacities Meet Legal Requirements in all States.**

Dozen Quarts for only **65c** in 5 gross lots

Save as much as 30% on Milk Bottles at Wards low prices. Made of finest chip-resistant, cloud-proof Flint Glass. Annealed for toughness—bottles last longer, breakage is reduced. Correctly shaped and sized—reinforced shoulders and bottoms. Every cap seat is uniform size to fit standard (No. 2) caps above. *Approved by all Dairy Codes.*

Unlettered bottles, in quantities up to 5 gross, are **shipped from Stock** in Baltimore or Albany. In corrugated containers—*Not Mailable.* For lettered bottles see listing at right.

Size	Article Number	Ship. Wt. Per Dozen	Two Dozen	Three Dozen	Six Dozen	Five Gross
1 Quart	187 A 4330	20 lbs.	$1.45	.....	$3.95	$39.00
1 Pint	187 A 4331	13 lbs.	.....	$1.55	2.85	28.00
½ Pint	187 A 4332	8 lbs.	.....	.....	2.25	22.00

Your Name in Color On Your Bottles

Bottles carrying your dairy's name in color bring added profits. This method of advertising is practical, economical, and consistent. Customers will read your message hundreds of times—and remember it when ordering dairy products. It pays for itself because many more bottles are returned. Lettering in *Red, Green* or *Black.* Your choice of 10 designs on one side of bottle—your name in script or block lettering on the other.

Write for FREE Circular

No Extra Charge! Your Name on Your Bottles

In lots of 5 gross or more in one size your name may be molded in raised block letters at no extra charge. **Be sure to print name and dairy.**

To allow for rejects factory runs 3 dozen extra bottles. Quantity over or under 5 gross will be added to or deducted from price.

Allow 3 weeks for shipment from Factory near Pittsburgh, Pa.

Five Gross Lots

Size	Article No.	Price
1 qt.	287 A 4390	$39.00
1 pt.	287 A 4391	28.00
½ pt.	287 A 4392	22.00



Adjustable Butter Mold

49c Ea.

For home or ball dairy use. Made of colorless hard maple with pressure-resisting dovetail corners. Long shaped. Easily adjusted to form prints for ¾-, 1 lb., or ¼-lb. size butter block. Ship. wt. 1 lb. 4 oz.

187 A 4400—Each. **49c**

KVP White Parchment Paper

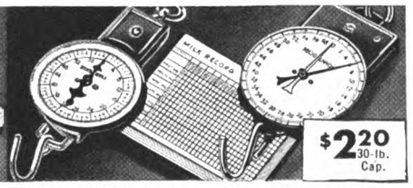
Wrap cheese, butter. Tasteless, odorless, sanitary parchment paper—resists oils, fats. Becomes much stronger when wet. **State quantity wanted.**

87 A 4406—8 by 11-inch

Sheets	Ship. Wt.	Price
250	2 lbs.	49c
500	3 lbs. 8 oz.	87c
1000	7 lbs.	$1.60

87 A 4408—9 by 12-inch

Sheets	Ship. Wt.	Price
250	2 lbs. 8 oz.	59c
500	4 lbs. 4 oz.	98c
1000	8 lbs.	$1.85



$2.20 30-lb. Cap.

Pelouze Dairy Scale

Extra large dial is 7 in. in diameter—made of acid-proof, rust-proof genuine vitreous enamel. Wide graduations can be quickly and easily read. Red pointer is adjustable for weight of empty pail. Legal in all states for weighing milk. Approved in N. Y. and Pa.—Serial No. F 6. Ship. wt. 4 lbs. 12 oz.

87 A 4267—40-lb. cap., 1/10 graduation. **$3.65**
87 A 4268—60-lb. cap., 1/10-lb. graduation. **$4.35**
87 A 4269—120-lb. cap., 2/10-lb. graduation. **$5.10**

Wards Dairy Scale

Keep accurate production records—know which cows are making money. *Two pointers*—adj. red pointer for net weight—black pointer for gross wt. Brass dial won't rust. Legal in all states for weighing milk.

87 A 4242—Cap. 30 lbs., 1/10 lb. graduation. 6-in. dial. Wt. 2 lbs. 8 oz. **$2.20**
87 A 4243—Cap. 60 lbs., 1/10 lb. grad. 7½-in. dial. Wt. 3 lbs. 12 oz. **$4.10**
87 A 4244—Cap. 120 lbs., 2/10 lb. graduation. 7½-in. dial. Shipping weight, 6 lbs. 4 oz. **$5.40**

Milk Record Forms—100 for 23c

87 A 4407—7-Day Sheets for up to 15 cows. 100 blanks. Slipping weight, 1 lb. 6 oz. **23c**



High Speed 16-Qt. Bottle Filler

$9.25 Fills a crate of bottles in one minute. 16-quart capacity—more than enough for a full case without spilling. Rubber bottle seal fits cap seat of bottle—stops milk flow when bottle is full. Air release prevents foam. Nickel plated filler valve is machine ground—closes to tight, leak-proof fit when filler is lifted from bottle. Seamless steel bowl is heavily tinned, sanitary—meets all Dairy Codes. Electro-welded handles. With cleaning brush.

487 A 4346—Wt. 9 lbs. . . **$9.25**

Rubber Bottle Seal for Bottle Filler Above

87 A 4344—Ship. wt. 3 oz. . **20c**



WARDS ROTARY BOTTLE CAPPER

Caps a Case of Bottles in Half a Minute!

$7.95

YOU SAVE $4 to $5

- **Sanitary—caps stay clean.**
- **Simple, trouble-free mechanism.**
- **Nickel plated die castings.**

Lowest price we've seen for an *efficient* Rotary Milk Bottle Capper. Easier to use than ordinary capping machines—because it's built to cap bottles *anywhere* in the case. Wards Capper has plenty of clearance—no clumsy overhanging parts in your way. You don't have to walk around the case to "get at" every bottle. Positive acting, simple, fool-proof—fully enclosed mechanism has no complicated parts to break or get out of order. No light stampings—sturdy die cast frame and handle—resists rust—easy to keep clean. Approved by all dairy codes. Pistol grip does not tire hand. Use standard plain or pull-tab (No. 2) caps packed in tubes.

587 A 4460
Wt. 5 lbs.
Each. **$7.95**

BA WARDS 1123

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Cut Milking Time in Half

FOR 1 CENT PER COW PER MILKING!



COMPLETE OUTFIT

$130.00 CASH

Rotary Vacuum Pump Unit and One Double Milker

$12.50 DOWN, $9 MONTH

See Inside Back Cover



TROUBLE-FREE PULSATOR

Operates on low vacuum. Trouble-free parts are anti-friction metal—completely enclosed. Simple thumb screw regulates stroke quickly.



BRONZE COVER

Nickel-plated bronze—won't corrode or rust. Sanitary—no corners to catch dirt or germs. 2 hooks for teat cups. Bronze milk spigots.



ELECTRIC MOTOR

Motor and compressor are one compact unit. Pump attached to motor shaft—no belts to slip or wear. Shaft runs on needle bearings.



CALF-LIKE—NATURAL

Gentle sucking action massages teats and udder—helps keep them healthy, normal. Gets all the milk—massaging induces free flow.



CUP CLUSTERS

Vacuum automatically cut off when cluster is held as shown. Cups attached without losing vacuum. Cups massage 2 teats, milk other 2



TEAT CUPS

2-piece construction of strong, pliable red rubber. Tapered—they fit all sizes of teats—won't fall off.

Banish the Drudgery of Milking by Hand!

Would you milk a cow for one cent—or go through the tiring drudgery of milking 19 cows twice a day for 38 cents? Of course you wouldn't—but you can end weary hand-milking forever—*and cut milking time in half*—with a Royal Blue Double-Milker Unit costing only 38 cents a day for 1 year.

And you'll get More Milk! A man's milking stroke changes when he's tired or hurried—these constant changes make cows nervous, and they hold back milk. But Royal Blue's steady action never varies—every cow gives ALL her milk every day.

Royal Blue Milker Unit—Natural calf-like milking action gently induces cow to give all her milk without harm to udder—actually more gently and easily than by hand. Milks two teats while resting and massaging other two.

Trouble-Free Pulsator has few moving parts to wear—operates on low vacuum. Pulsator speed regulated with screw. Enclosed working parts of anti-friction metal need little oiling.

Solar Welded Pail—Light to carry—easy to clean. Dent-resisting Milk Can Steel—welded into solid unit, dipped in pure Straits Tin. Reinforced bottom, lips. Tight-seal gasket.

Rustproof nickel plated bronze covers. Bronze milk spigots and hooks for cups. Nickel plated teat cups—pure gum rubber inflations.

New Rotary Vacuum Pump Unit—the latest development in the industry. Light-running, and trouble-free. *Completely eliminates metal on metal friction.* Vanes are Bakelite—so light that power loss is cut to minimum. Wick oiling lubrication. (No. 1 for 1 double or 2 single milkers. No. 2 for 2 double or 4 single milkers.)

Vacuum Tanks—Ample capacity for reserve vacuum. Welded steel galvanized against rust.

Automatic drain valve in bottom—any condensation or moisture drains off as soon as pump stops. Complete with vacuum gauge, safety valve.

Electric motor. Induction-Repulsion type—easy and light starting. Flange bolted to pump housing. 60-cycle, 110-volt A.C. (Write for prices on motors for other currents.)

30-Day Trial—Learn how to escape tiresome hand milking. Order in usual way, sending down payment or cash price. If at the end of 30 days you are not completely satisfied, we will refund every cent, including transportation charges. **Shipped from Factory** near Minneapolis, Minn., usually in 5 additional days.

COMPLETE MILKER OUTFITS

With No. 1 Rotary Vacuum Pump, ¼-H.P. Motor, tank, fittings, milker units. Wts. 120, 130, 150 lbs.

287 A 4592—With One Single-Unit Milker.... **$118.00**
287 A 4593—With One Double-Unit Milker.. 130.00
287 A 4594—With Two Single-Unit Milkers.. 165.00

With No. 2 Rotary Vacuum Pump, ½-H.P. Motor, vacuum tank, fittings, milker units. Ship. wts. 175, 215 lbs.

287 A 4595—With Two Double-Unit Milkers **$199.00**
287 A 4596—With Four Single-Unit Milkers.. 271.00

Milker Units Only—No vacuum pump, motor, or tank. Shipping weights 30, 40 lbs.

287 A 4525—Single Unit with 50-Lb. Pail.... **$46.75**
287 A 4524—Double Unit with 70-Lb. Pail.... **58.75**

Rotary Pump Vacuum Outfits Only

With pump, tank, safety valve, vacuum gauge, motor and fittings. No milker units. Tank 8 in. by 22 in.

287 A 4590—With No. 1 Pump, ¼-H.P. Motor. Shipping weight 90 lbs..... **$71.95**
287 A 4591—With No. 2 Pump, ½-H.P. Motor. Shipping weight 95 lbs..... **84.50**

Rotary Pump and Motor Only

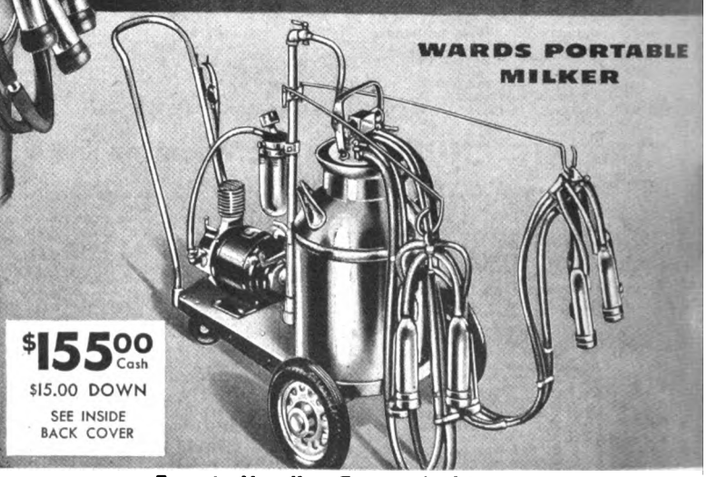
Complete with air cleaner, safety valve, and 4-inch hose. Ship. wts. 100 lbs., 110 lbs.

287 A 4598—No. 1 Pump and ¼-H.P. Motor.. **$52.00**
287 A 4599—No. 2 Pump and ½-H.P. Motor... **74.50**

Vacuum Pump and Tank Only

Piston type pump unit (not pictured) for ¾ H.P. gasoline engine. Valve, gauge, and fittings. No motor. Flat or grooved 10-in. pulley. **State choice.** Operates at 425 r.p.m. Described in Milker Book—send for it.

287 A 4528—With No. 3 Pump. Wt. 160 lbs... **$67.75**
287 A 4529—With No. 4 Pump. Wt. 185 lbs... **80.00**



WARDS PORTABLE MILKER

$155.00 Cash

$15.00 DOWN

SEE INSIDE BACK COVER

Easy to Handle—Economical to Operate

- **Needs no pipe line or permanent installation.**
- **Calf-like action milks 2 cows in 5 minutes.**
- **Trouble-free parts easily kept "dairy-clean."**
- **Has 6 features pictured and described above.**

Nothing more to buy—just wheel it in, connect plug to socket, and start milking. Unit may be left on truck or placed between cows like a pipe line milker—extra 8-ft. of milk hose is provided for that purpose. Just right for herds up to 15 cows.

Steel truck has 3 solid rubber tires, with rods to keep hose from floor. Easy, silent, portable.

Standard Solar-Welded 8-gallon milk container with 7¼-in. neck. Milk Can Steel, dipped in pure Straits Tin. Rubber gasket seal.

Milker Head is like that on our 287 A 4525 pipeline unit at left but the construction is heavier and it has a tapered seal to fit milk cans.

Nickel plated teat cups shells — pure gum rubber inflations. Fit all size teats—they won't fall off. Natural calf-like action alternately milks two teats while gently massaging other two. Ter and udder are kept in healthy, normal condit Single cow can be milked by closing vacuum spigot one side. Milk flow is visible through glass tubes.

Pulsator has trouble-free mechanism—few mo ing parts; mounted on cover. Only 14 inches of v uum required—speed is quickly adjustable.

Vacuum Pump consists of rotary impeller wi four bakelite blades attached directly to motor sh with housing built on. No belts to wear or slip.

Heavy Glass Vacuum Tank with gauge and rel valve. Nothing to corrode. Easily removed for cle ing out occasional sediment or condensed vapor.

Electric Motor—¼-H.P. 110-volt, 60-cycle un Has vacuum pump directly attached, in place usual face plate, to form one compact unit.

10 ft. of sturdy rubber cord has handy sn button switch and standard plug. **Shipped** fro **Stock in Baltimore or Albany.**

187 A 4501—Complete as pictured. For 110-vo 60-cycle only. Ship. wt. 140 lbs..... $155.



MILKING MACHINE ACCESSORIES

(A) Long Duplex Air Hose. Pure gum rubber. Welded together to resist tearing. Ends finished ¼-in. inside diam., ⅜-in. outside, 38 in. long.
87 A 4504—Ship. wt. 1 lb.. **89c**

(B) Stanchion Hose. 1 flexible, 1 molded connection. Brass nipples, ½ in. inside diam., ⅞ in. outside. 66 in. long. Wt. 1 lb. 10 oz.
87 A 4505—Each..... **$1.39**

(C) Live Red Rubber Tubing Hand molded—resists cracking, splitting and action of butterfat. Ship. wt. 4 oz. per ft. **State length wanted.**

Article Number	Diameter Inside	Diameter Outside	Per Ft.
687 A 4335	7/32-in	9/16-in	10c
687 A 4336	5/16-in	11/16-in	13c
687 A 4337	3/8-in	3/4-in	15c
687 A 4338	7/16-in	13/16-in	16c

(D) Metal Clamps. For fastening pipe to round or sq. metal rails.
87 A 4534—Wt. 14 oz. **37c**

(E) Stall Cocks. For vacuum line—½-in. pipe. One for two cows.
87 A 4533—Wt. 11 oz. **65c**

(F) Teat Cups for all double-tube milkers. Nickel-plated shell. Gum rubber inflations.
87 A 4506—Wt. 14 oz. **$2.10**

(G) Inflations for above. Gum rubber. Also fit Universal, Perfection, Riteway, or Hinman shells.
87 A 4508—Wt. 5 oz. **59c**

(H) Vacuum Gauge—registers to 30 in. Screen stops flutter of pointer. Geared with 270° reading. ½-in. connection. Ship. wt. 1 lb. 10 oz.
87 A 4502—Each.. **$1.95**

(J) Vacuum Relief Valve and Screen.
87 A 4503—Ship. wt. 1 lb. 2 oz..... **$3.55**

DOUBLE-DUTY COOLER AND FILTER

Not only filters and cools milk—but, in doing so, retards bacteria growth and removes barn odors! Provides inexpensive way to better, cleaner milk. Pour cold water into water reservoir or use garden hose to water connection. Tank may also be filled with ice—just plug up water inlet. 1-in. water overflow pipe in tank. Use agitator to keep cooling surface at uniform low temperature. Milk poured into reservoir is filtered through 6-inch filter disk, held firmly in place by 2 perforated plates, into receiving tank; passes through holes (bottom of reservoir) over surface of cooling tank into trough. Charcoal tinned surfaces, sanitary soldered, 18-qt. for 1 to 5 cows, 34-qt. for 5 to 10 cows, 52-qt. for 10 to 20 cows. *Not Available.*

$6.45 18-Qt.

187A4264—18-qt. Wt. 24 lbs. **$6.45**
187A4265—34-qt. Wt. 34 lbs. **8.35**
187A4266—52-qt. Wt. 42 lbs. **9.65**

WARDS WALL-TYPE MILK COOLER

$25.45 Cash

$3 Down—See Inside Back Cover

- **75 lbs. pressure tested!**
- **40-80 gals. per hour!**

Cools milk to desired temperature — aerates it thoroughly. Milk flows over ten 1½-in. seamless tinned copper tubes. Water or brine from any pressure system runs through tubes—cooling every inch of cooling surface to within 2 degrees of water temperature. Drawn lips on tubes direct milk. Threaded nipple for ½-in. standard pipe connection. Tinned Steel milk reservoir. **Shipped from Factory** near Buffalo, N. Y. in about 5 days.

287 A 4375—Capacity 40 gals. per hour. Ship. wt. 50 lbs..... **$25.45**
287 A 4376—Capacity 60 gals. per hour. Ship. wt. 58 lbs..... **29.45**
287 A 4377—Capacity 80 gals. per hour. Ship. wt. 65 lbs..... **33.95**

Write Today for Wards Free Dairy Circular. Big 1200-lb. Milk Cooler! Dairy Boilers and steamers! Cooling Cabinets, Pumps, Sterilizers, Pasteurizers, Rotary Bottle Fillers.

AUTOMATIC ELECTRIC WATER HEATER

Heats water to 160°—hot enough to clean cans, pails, strainers, milking machines, and separators! Insulated by 3-in. layer of glass wool. Water loses less than 1° an hour in 42° room. Stays warm 2 days without using current! Holds 10 gallons. Snap-action disc thermostat regulates current. Uses 250-watts. Inner tank and jacket —copper alloy steel—galvanized. Steel outer tank enameled White. No special wiring, piping needed. State 110 A.C. or 110 D.C. **Shipped from Factory** near Chicago in about 5 days.

$34.50 Cash

$4 DOWN

See Inside Back Cover

287 A 7397—Ship. wt. 73 lbs..... **$34.50**

USE A WARD HEAVY-DUTY PICK-UP CART

Drop Center Wheels

Make use of your discarded tir —have an air-cushioned tru Holds four 10-gallon milk cans saves many steps and heavy li ing. Strong enough for 500 l loads! Heavy angle iron fra welded, bolted together. Roo 26 by 31-in. wood platfor Pushes and turns smoothly ♦as Rounded steel legs keep cart le —just tip it forward to unlo Use it anywhere around the bar or farm—it's built to take t roughest use! **Shipped fro Factory** near Elmira, N. Y. about 5 days.

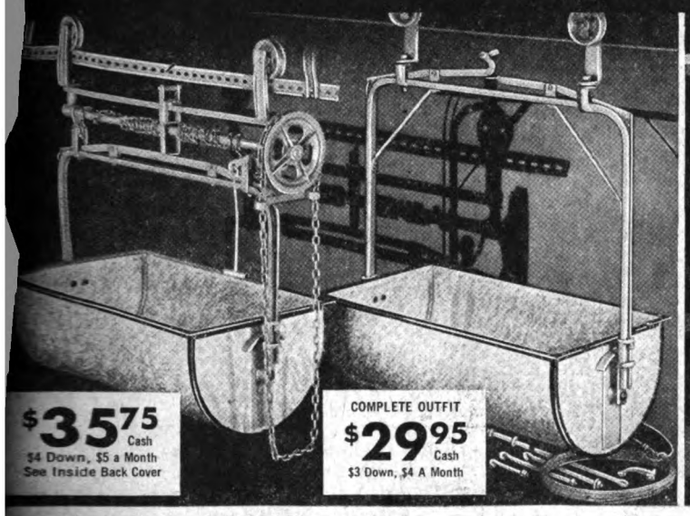
For new or used rubber tire 16-in. drop center rims. Uses 5.5 to 6.00 tires (not included). Roll bearing hubs. Wt. 93 lbs. **$14.9**
287 A 6159—Each.....

Steel Wheel Carts

Strong 30-in. steel wheels, 2-in wide steel tires. ⅛-in. axle ha smooth-running plain bearing Ship. wt. 76 lbs. **$8.9**
287 A 6157—Each.....

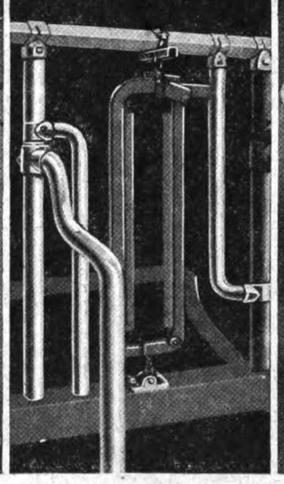
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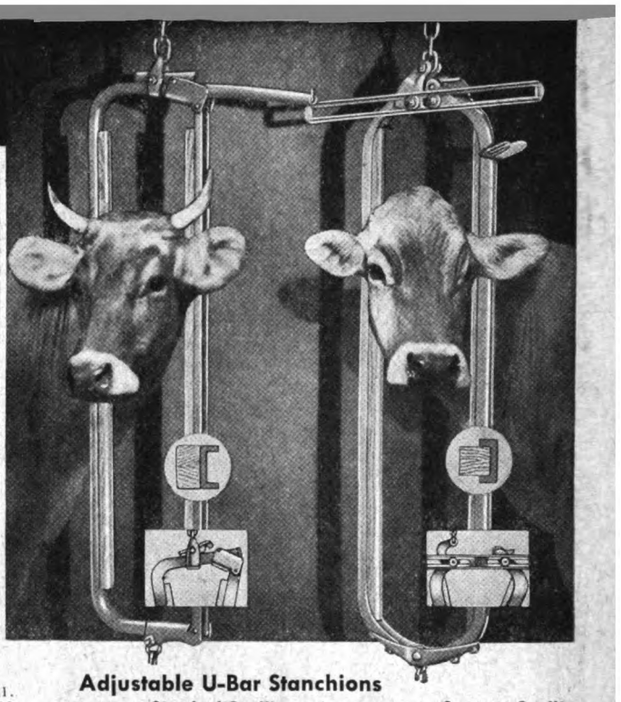
SAVE TIME · LABOR · MONEY
with Wards Modern Barn Equipment



$35.75 Cash
$4 Down, $5 a Month
See Inside Back Cover

COMPLETE OUTFIT
$29.95 Cash
$3 Down, $4 A Month





Chain Hoist Carrier

ingle Geared Hoist—Easier to Lift!
9-Ga. Galv. Copper-Bearing Steel Tub, umps Automatically—Stays Level.

y to operate—bucket lowers 3 ft.—takes ift out of loading. 7-bushel bucket is 24 in. ng 42 in. long, 15 in. deep—reinforced by el angles. Seams soldered—will not leak. ach roller bearing wheels run on I-beam ood track (track and hanger not included). n be used with combination rigid and cable ck. 11-in. hoist wheel. 2-in. steel bail has in. clearance. Use your Credit—See Wards venient Time Payment Plan on Back Cover.

7 A 4701—7-Bushel. Wt. 145 lbs. $35.75
7 A 4710—12-Bushel. 18-ga. steel; back ared chain hoist. Tub 45 in. x 30 in. x 25 in. r I-Beam Track, 2-ft. hanger acing. Shipping weight 210 lbs. $48.50

Automatic Carrier Outfit

- **7-Bushel Bucket—20-Ga. Galv. Steel.**
- **Automatically Trips and Dumps from Either Direction—Locks at Both Ends.**

The ideal labor saver for any barn or dairy—saves needless steps—makes cleaning quicker and easier! Big copper-bearing steel bucket is galvanized to resist rust; riveted and reinforced by steel angles. Size 24 in. wide, 42 in. long and 15 in. deep. Runs on 5-in. roller bearing wheels, 4 ft. from track to bucket bottom. Malleable castings for extra strength. Includes 100 ft. of 13/32-in. steel rod track and stay loop, 2 tension bolts, automatic trip, anchor rod, and hanger. For Wards complete Time Payment Terms, see Inside Back Cover.

187 A 4705—Complete. Wt. 160 lbs. $29.95
187 A 4700—Carrier only. With Trip. Shipping weight 85 lbs. $20.75

Complete Cow Stalls

$6.89 Complete

Square Top Rail. Welded steel tube posts, 1 5/8-in. diam., 3½ ft. wide by 5 ft. 5 in. high. Includes: 1 curve partition, 1 post, sq. top rail, 2 cow stops, adjustable stanchion holders. Alignment device. Stanchion not included—see Wards Adjustable U-Bar Stanchions at left.

187 A 4781—Ship. wt. 50 lbs. $6.89
187 A 4783—As above, with round top rail, 1 cow stop, non-adjustable stanchion holders. Wt. 40 lbs. $5.25
187 A 4784—End Section. Curved partition, 1 post, clamps. Shipping wt. 15 lbs. $3.15
187 A 4785—Post Flange. With screws for wood floor. Wt. 2 lbs. .52c

Adjustable U-Bar Stanchions

$1.79 Each, Unlined

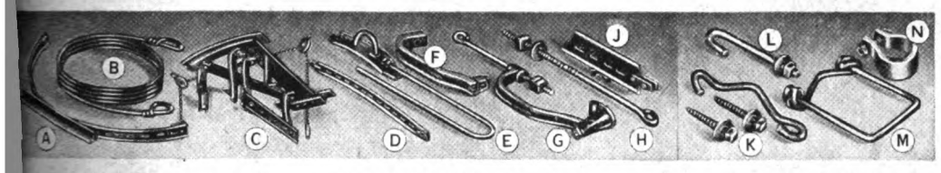
Standard Quality
Single hinged side bars of 1¼ x 3/16-in. U-bar steel; quick, simple lock. Painted Machinery Gray Inside ht. 44 in.; outside 47 in. Opens to 17¾ in. Hung top and bottom with 4 in. of ⅜-in. chain. Width adjustable at both ends. *Single Stanchions Malleable.* **Shipped from** Baltimore, Albany or Pittsburgh.

P487 A 4771—Unlined.
Ship. wt. each 17 lbs. Each $1.79
Lots of five 8.70
P487 A 4773—Lined with 1¼- in. oil-treated maple. Ship. wt. 18 lbs. (Pictured.) Each $2.10
Lots of five 10.25

$3.30 Each Unlined

Supreme Quality
Double hinged side bars of 1¼ x 3/16 in. U-bar steel are guide 1 by malleable iron bar into malleable lock. Aluminum finish. Ht. inside 42 in., outside 48 in. Opens to 23 in. Hung at top and bottom with ¼-in. chain. Width adjustable at both ends. *Single Stanchions Malleable.*

487 A 4765—Unlined.
Ship. wt. ea. 20 lbs. Each ... $3.30
Lots of 5 ..... 16.25
487 A 4767—Lined with 1¼-in. oil-treated Maple. Wt. 23 lbs. (Pictured.) Each $3.55
Lots of 5 ..... 17.50





Track and Attachments to Fit All Litter Carriers

Post Curve for Rod Track—For running carrier from one track to another, or from 2 doors to a yard post.
7 A 4708—Ship. wt. 20 lbs. Each ... $3.15

Steel Rod Track. Ship. wts. 7, 10 oz. per running ft.
7 A 4712—1 3/32-in. diam. Per ft. 6c
7 A 4713—1 3/32-in. diam. Per ft. 7c

Two-Way Switch for I-Beam Track—mounted on a steel base which attaches to barn joists. Shifts transfer track to connecting track. Stop prevents running through when switch.
7 A 4709—Ship. wt. 25 lbs. $8.50

Splice Connection—for joining rod and I-beam track. *Mailable.*
7 A 4704—Ship. wt. 11 lbs. $1.79

Flexible Curve for Rod Track flexible steel makes 45° angle. Cable fastens it to door frame. *Mailable.*
87 A 4707—Ship. wt. 5 lbs. $1.95

Track Hanger for I-Beam Track—9-in. pressed steel with lag screw. Screw to joists every 4 ft. for 7 bushel carriers; every 2 ft. for 12 bushel carriers. *Mailable.*
87 A 4703—Shipping weight 1 lb. 24c

Rod Track Hanger. *Mailable.*
87 A 4725—Ship. wt. 2 lbs. 65c

Tension Bolt. For counteracting side pull on cable track. *Mailable.*
87 A 4748—Ship. wt. 3 lbs. 80c

I-Beam Track. Bend cold for turns. 2-in. by ⅜ in. 12-ft. only—connections.
187 A 4702—Wt. per ft. 1 lb. 8 oz. Foot . 12c

See Wards 69-year-old "Satisfaction or Money Back" Guarantee on Page 1165.

Stanchion Fittings

Anchor—Fastens stanchion securely to wood floor. Complete with washers and screws.
87 A 4792—Ship. wt. 8 oz. ... 15c

Hook Bolt—For use with wood beam. Length 6 inches. Complete with nut.
87 A 4791—Ship. wt. 8 oz. ... 10c

Anchor Bolt—For cement curb. 4-in. U-bolt, clamp and nuts.
87 A 4793—Ship. wt. 12 oz. .22c

Steel Clamp—For 1⅝-in. round-top rail. With bolt.
87 A 4794—Ship. wt. 6 oz. ... 19c

Modernize your barn now. See Back Cover for Payment Terms.

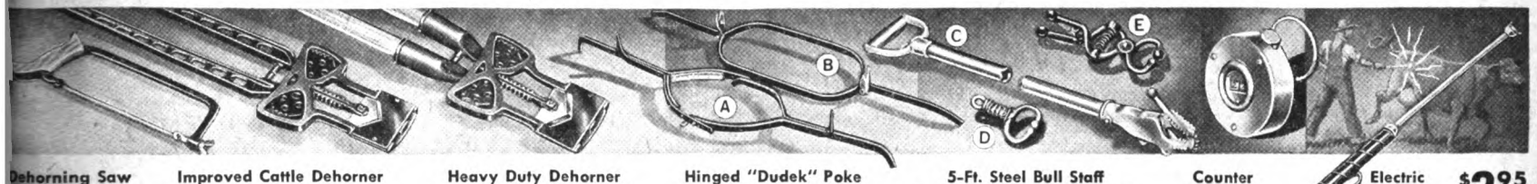
Automatic Bowls Add 15% to Your Herd's Yield!

Cows need 12 buckets of water a day for maximum production—5 lbs. per lb. of milk. By increasing their water consumption, you increase their milk yield up to 15% according to the U.S. Dept. of Agriculture. Give your herd all the water they'll drink by installing Wards trouble-free, sanitary Bowls in your barn. *You can't find an easier way to increase your milk yield—and your profits.*

Standard Quality
For gravity or pressure line up to 40 lbs. Cast iron—8½-in. diam., 4 in. deep. Detachable. Pressure plate operates valve. For 1-in. pipe or ¾-in. bushing—top connection. For wood or steel post. Wt. 13 lbs.
487 A 4715 .. $2.45
Six for $14.40

Superior Quality
For high or low pressure line. Large cast iron bowl, 9-in. diam., 4½ in. deep—quickly detachable for cleaning. Positive valve. ¾-in. pipe connection above and below. Clamps to wood or steel post. Wt. ea., 13 lbs.
487 A 4802 ... $2.99
Six for $17.60

Supreme Quality
For high or low pressure. Flow adjustable for each cow. Bushing regulates pressure. Bowl easily cleaned without removing—working parts on outside. Heavy cast bowl—9 by 8 by 5 in. deep. 1-in. pipe connection above and below can be bushed to ¾-inch. For wood or steel post. Wt. 15 lbs.
487 A 4716—Each ... $3.55
Six for $20.70



Dehorning Saw

rame of malleable on. Smooth hard-ood handle, tight-ing screw, 9½-tempered steel ade. 14½-in. erall length. 3⅜ deep at front. 1 lb. 4 oz.
7 A 8391—
ach $1.49
7 A 8392—Extra ades—Wt. 2 oz. ach 14c
for 52c

Improved Cattle Dehorner

Long handles for greater leverage. Frame and handles are malleable iron. Compound leverage makes job easier. Tempered steel V-shaped Blades are replaceable.
487 A 8352—Medium Size. 3 in wide. Opens 3⅝ in. Lgth. 37 in. Wt. 14 lbs. $3.95
87 A 8353—Pair of extra Blades for 487 A 8352. Wt. 2 lbs. .$1.25
487 A 8354—Large Size. 3⅝ in. wide. Opens 3⅝ in. Lgth. 39 in. Wt. 16 lbs. $5.25
87 A 8355—Extra Blades for 487 A 8354. Wt. 2 lbs. 4 oz. Pr. $1.40

Heavy Duty Dehorner

Frame, cogs, and handle sockets are made of heavy malleable iron. 34-in. handle is hardwood. Leverage is compound, making possible tremendous power with little effort. "V" shaped Blades are tempered crucible steel. Cut cleanly all around horn. Length, 47½ inches.

487A 8363—Complete. Ship. wt. 18 lbs. $8.25
87 A 8364—Extra Blades. Described above. Ship. wt. 2 lbs. Pair $1.65

Hinged "Dudek" Poke

(A) Discourages stubborn fence breakers. Fence wires or posts catch hooks—forcing hinge. Spurs act immediately. Enameled, forged steel. Wt. 3 lbs. 8 oz.
87 A 8269—Each 59c

Double-Spurred Poke

(B) 2 spurs act immediately if cow tries to break through fence. 3/16 by ¾-in. steel. 33 in. long. Enameled finish. Wt. 3 lbs. 4 oz.
87 A 8268—Each 44c

5-Ft. Steel Bull Staff

(C) Rigid, steel tube and hook. Controls bull from handle or hook as easily as a bit curbs a horse.
487 A 4720—Ship. wt. 6 lbs. $3.10

Lightweight Leader

(D) Malleable iron, strong spring. Hinged opening. 4⅝ in. long.
87 A 8271—Ship. wt. 8 oz. 21c

Heavy Duty Leader

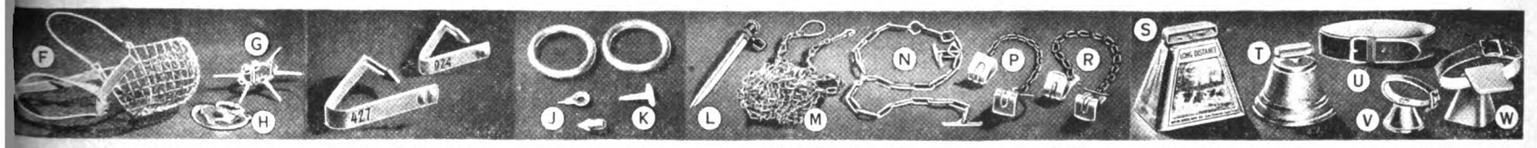
(E) Malleable iron—8½ in. long. Easily put on and taken off. Will not injure cattle.
87 A 8270—Wt. 1 lb. 6 oz. 59c

Counter

An accurate register for counting animals, cars, etc. Nickel plated. Pressing plunger registers 1 to 999. Sets quickly back to 0. 2-in. diameter.
87 A 8263—Wt. 8 oz. .. $2.15

Electric Stock Prod $2.95

Don't waste time with stubborn livestock—get instant obedience with Wards Electric Prod. Just press button on handle, and the powerful, stimulating shock will hurry along the balkiest animal. Won't bruise, burn or cut hide. Has 2 flashlight batteries enclosed in non-conductive handle. Easy to carry, most of weight is in handle. 3 ft. long. Batteries included. Wt. 1 lb. 12 oz.
87 A 9452—Each $2.95



Wire Basket Weaners

(F) Steel wire—meshed and tinned.
7 A 8260—For Calves. 4½ in. 5 in. Ship. wt. 1 lb. Each 49c
7 A 8261—For Yearlings. 5 in. by in. Wt. 1 lb. 4 oz. Each 59c
7 A 8262—For Cows. 6 in. by 7 in. t. 1 lb. 8 oz. Each 69c

Fuller Pattern Weaners

(G) ron—heavily tinned to resist rust.
7 A 8247—For Calves. 1¾-in. rongs. Ship. wt. 7 oz. Each 15c
7 A 8248—For Yearlings. 1⅞-in. rongs. Wt. 8 oz. Each 19c
7 A 8249—For Cows. 2⅛-in. rongs. Ship. wt. 10 oz. Each 24c

Wards Humane Weaners

(H) inned iron and steel. Hinged type.
7 A 8258—For Calves. 4¼ in. ide. Ship. wt. 9 oz. Each 27c
7 A 8259—For Yearlings. 5¼ in. ide. Ship. wt. 11 oz. Each 37c

Self-Locking Ear Tags

Numbered from 1 to total wanted.
87 A 8488—Cattle Tags

No.	Numbered	Ship. wt.	Price
50	1 to 50	1 lb.	$1.29
100	1 to 100	2 lbs.	2.15
500	1 to 500	9 lbs.	6.90
1000	1 to 1000	18 lbs.	12.50

87 A 8489—Hog or Sheep Tags

No.	Numbered	Ship. wt.	Price
50	1 to 50	8 oz.	98c
100	1 to 100	1 lb.	$1.89
500	1 to 500	4½ lbs.	5.90
1000	1 to 1000	9 lbs.	10.90

For name, address, etc. add 60c—no charge for 1000 or more. Shipped from Cincinnati in 6 days.

Clinching Pliers Wt. 1¼ lbs. ea.
87 A 8486—For 87 A 8488. . 98c
87 A 8487—For 87 A 8489. . 98c

Bull Rings

(J) **Lock-Easy**
Locks automatically and rigidly. Self-piercing. Solid copper—highly polished. With opening tool, piercing point. ⅜ by 3 in. Wt. 6 oz.
87 A 8267—Ea. 57c

(K) **Self-piercing**
Solid copper—machined, polished. Hinge locks tight. Set screw and screwdriver furnished. Wts. 8 oz. and 9 oz.
87A8265—Med. 5/16 by 2¾ in. ... 25c
87 A 8266—Large. ⅜ by 3 in. 30c

Swivel Top Picket Pin

(L) 13 in. long. Malleable iron with japanned finish.
87 A 8246—Wt. 1 lb. 4 oz. 35c

Tie-Out or Picket Chains

(M) Weldless steel links with ring, snap, and swivel.
87 A 8232—State length.

Lgth Ft.	Size	Diam. Wire	Ship. Wt. lbs.	oz.	Each
20	0	1/8 in.	3	4	39c
25	2/0	9/64 in.	5		59c
30	3/0	5/32 in.	7		85c

Welded Steel Cow Ties

(N) Ohio pattern. Adjustable for calf, yearling, or cow. Swivel and 2 iron toggles. 4½ ft. of 2/0 chain. Diam. of rod 5/16 in. Ship. wt. ea., 14 oz.
87 A 8233—Ea. 18c. 6 for $1.04

Superior Hobble

(P) Strongly welded steel chain draws through one leg band. 18 in. long—adjustable to desired length. Wt. 1 lb. 4 oz.
87 A 8332—Ea. 19c
Three 50c

Supreme Hobble

(R) Heavy steel clamps. Weldless links individually twisted and locked together. 23 in. long—adjustable length. Draws through both leg bands. Ship. wt. ea., 1 lb. 12 oz.
87 A 8333—Ea. 25c

Long Distance Cow Bells

(S) Copper fin. steel. No straps. Wt. ea., 10 oz.; 1¼ lbs.
87A8344—State size wanted.

Mouth Size	Strap In.	Each	Doz.
3 x2¼ in.	Use 1¼	21c	$2.30
4⅝ x3⅜ in.	Use 2¼	35c	3.80

Swiss Style Cow Bells

(T) Bell metal. No straps. Wts. 12 oz.; 1¼ lb.; 2¼ lbs.
87A8345—State size wanted.

Size Diam.	Strap In.	Each	Doz.
3 5/16-in.	Use 1¼	59c	$6.40
4 -in.	Use 1½	95c	10.25
5 -in.	Use 2	$1.69	18.00

Nickel Plated Turkey Bells

(V) 1⅞-in. diam. Strap with buckle. Wt. 4 oz.
87 A 8347—Each ... 13c
Doz. $1.39

Cow Bell Straps

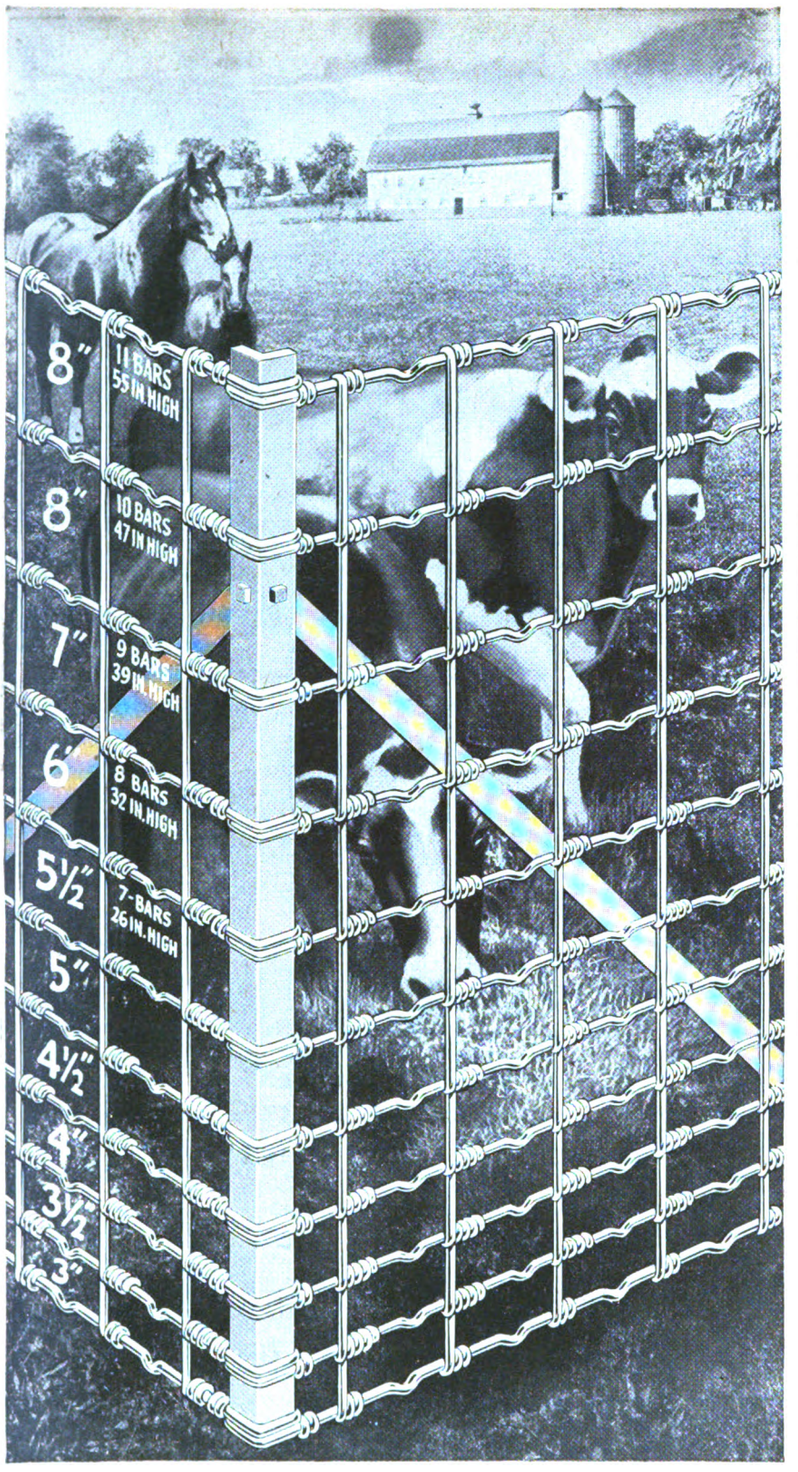
(U) Black harness leather. Black japanned buckle, 42 in. long. Ship. wts. 12 oz. to 1 lb.

Article No.	Width	Each
87A1560	1¼-in.	39c
87A1561	1½-in.	49c
87A1562	1¾-in.	59c
87A1563	2¼-in.	69c

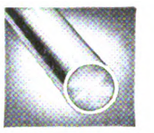
Sheep Bells

(W) Copper finished steel. Mouth 1½ x2⅛ in. Strap ⅝ x18 in. Wt. 4 oz.
87 A 8346—Ea. 25c
Doz. Wt. 3 lbs. $2.75

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WARDS AJAX



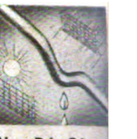
Heavily Galvanized
Finest quality steel, fortified with .20% to .30% pure copper, coated with pure zinc.



Free Sample Knot
Send for it—see wire wrapped around its own diameter without cracking galvanizing!



Longer Wrap
Each vertical wire has 1¾ wraparound horizontal wires—stronger than usual 1½ wrap.



New Drip Crimp
Line wires crimped downward—sheds rain—water drains away from joints.

Wards Master Ajax Fence for All Farm Animals

AS LOW AS **17c** PER ROD

Hinge Joint—most popular type fence in America! It *gives* to shock and strain that animals won't bend or twist it out of shape; you can stretch it *tight* over rough and hilly ground as fence adjusts itself to hills and hollows! Long life and superior construction are built in Wards Ajax Fence, with finest quality copper-bearing steel sealed against rust and corrosion with a heavy coat of pure zinc galvanizing. Extreme temperature changes won't make fence sag—the deep, heavy crimp permits necessary expansion and contraction. Every wire is *exact* size as specified; stays are spaced exactly 6 and 12 inches apart. Every bale is full length. Sold in cut lengths, or in bales of 20 or 30 rods. One rod equals 16½ ft. Pay freight and price as indicated in tables. See "Which Stock Fence Shall I Buy?" on Page 1129.

Full Bales—Shipped from Stock in Baltimore or Albany or from Factory near Pittsburgh, Pa. [illegible] days extra.
Less Than Full Bales—Shipped from Factory in Baltimore only.

17c Rod 20-in. In Full Bales — LIGHT WEIGHT—SHOULD LAST 13 TO 15 YEARS

(Based on Gov't study—see opposite page). Best for all light stock.
14½ Ga. ● Mesh Wires — 11 Ga. ● Top, Bottom Wires

Height Inches	No. Line Wires	Stays Spaced	Weight 100 Rods	Article Number	Full Bales—Pay Frt. from Pittsburgh: 20 Rod Bale	30 Rod Bale	Full Bales—Pay Frt. from Baltimore or Albany: 20 Rod Bale	30 Rod Bale	Less Than Full Bales—Pay Frt. from Baltimore
20	6	12 in. 6 in.	270 lbs. 350 lbs.	187 A 9298 187 A 9299	$3.40 4.98	$5.10 7.45	$3.60 5.20	$5.40 7.80	24c per rod 34c per rod
26	7	12 in. 6 in.	340 lbs. 420 lbs.	187 A 9300 187 A 9301	4.10 5.50	6.15 8.25	4.30 5.80	6.45 8.70	29c per rod 39c per rod
32	8	12 in. 6 in.	380 lbs. 480 lbs.	187 A 9302 187 A 9303	5.10 6.50	7.65 9.75	5.40 6.80	8.10 10.20	36c per rod 45c per rod
39	9	12 in. 6 in.	430 lbs. 545 lbs.	187 A 9304 187 A 9305	5.70 7.60	8.55 11.40	5.98 7.98	8.95 11.95	40c per rod 53c per rod
47	10	12 in. 6 in.	470 lbs. 585 lbs.	187 A 9306 187 A 9307	6.20 8.40	9.30 12.60	6.50 8.80	9.75 13.20	43c per rod 58c per rod

25c Rod 26-in. In Full Bales — STANDARD WEIGHT—SHOULD LAST 15 TO 18 YEARS

(Based on Gov't study—see opposite page). Strong enough to hold all stock.
12½ Ga. ● Mesh Wires — 10 Ga. ● Top, Bottom Wires

26	7	12 in. 6 in.	510 lbs. 640 lbs.	187 A 9320 187 A 9321	$4.98 7.20	$7.45 10.80	$5.40 7.60	$8.10 11.40	36c per rod 51c per rod
32	8	12 in. 6 in.	580 lbs. 740 lbs.	187 A 9322 187 A 9323	6.60 8.30	9.90 12.45	6.98 8.80	10.50 13.20	46c per rod 58c per rod
39	9	12 in. 6 in.	660 lbs. 840 lbs.	187 A 9324 187 A 9325	7.50 9.50	11.25 14.25	7.98 10.10	11.98 15.15	53c per rod 67c per rod
47	10	12 in. 6 in.	730 lbs. 950 lbs.	187 A 9326 187 A 9327	8.40 10.80	12.60 16.20	9.30 11.50	13.95 17.25	62c per rod 76c per rod
55	11	12 in. 6 in.	820 lbs. 1080 lbs.	187 A 9328 187 A 9329	9.40 12.80	14.10 19.20	9.98 13.60	14.98 20.40	66c per rod 90c per rod

35c Rod 26-in. In Full Bales — HEAVY WEIGHT—SHOULD LAST 18 TO 20 YEARS

(Based on Gov't study—see opposite page). The best weight for most purposes.
11 Ga. ● Mesh Wires — 9 Ga. ● Top, Bottom Wires

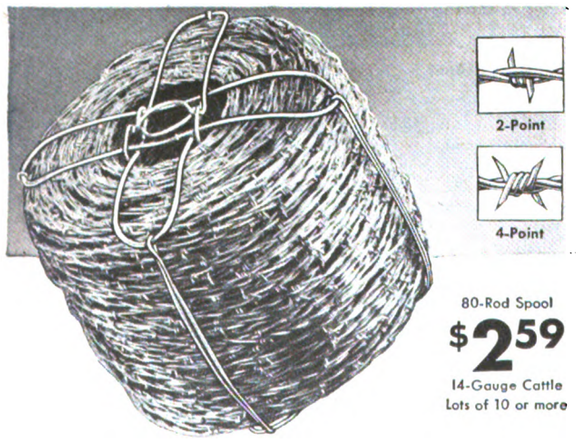
26	7	12 in. 6 in.	720 lbs. 920 lbs.	187 A 9330 187 A 9331	$6.98 9.80	$10.45 14.70	$7.50 10.50	$11.25 15.75	50c per rod 70c per rod
32	8	12 in. 6 in.	830 lbs. 1070 lbs.	187 A 9332 187 A 9333	8.98 11.50	13.50 17.25	9.60 12.20	14.40 18.30	64c per rod 81c per rod
39	9	12 in. 6 in.	940 lbs. 1230 lbs.	187 A 9334 187 A 9335	9.95 13.20	14.90 19.80	10.70 13.98	16.05 20.95	70c per rod 93c per rod
47	10	12 in. 6 in.	1060 lbs. 1403 lbs.	187 A 9336 187 A 9337	10.90 15.20	16.35 22.80	11.70 16.10	17.55 24.15	78c per rod $1.05 per rod
55	11	12 in. 6 in.	1180 lbs. 1580 lbs.	187 A 9338 187 A 9339	12.70 17.20	19.05 25.80	13.50 18.20	20.25 27.30	90c per rod $1.20 per rod

55c Rod 39-in. In Full Bales — NO. 10 SUPREME HEAVY WEIGHT—SHOULD LAST 20 YEARS OR MORE

(Based on Gov't. study—see opposite page). All wires 10-ga. steel—will turn heaviest farm animals! Gives greatest strength, lowest cost per year of service.
10 Ga. ● Mesh Wires — 10 Ga. ● Top, Bottom Wires

39	9 9	12 in. 6 in.	1090 lbs. 1480 lbs.	187 A 9394 187 A 9395	.....	.....	$10.98 15.20	$16.45 22.80	73c per rod $1.00 per rod
47	10 10	12 in. 6 in.	1240 lbs. 1720 lbs.	187 A 9396 187 A 9397	.....	.....	12.60 17.60	18.90 26.40	84c per rod $1.15 per rod

15c SAMPLE COIL Same galvanized copper-steel wire as used in all Wards fencing. **87 A 9671**—Ship. wt. about 2 lbs. **State gauge**.....



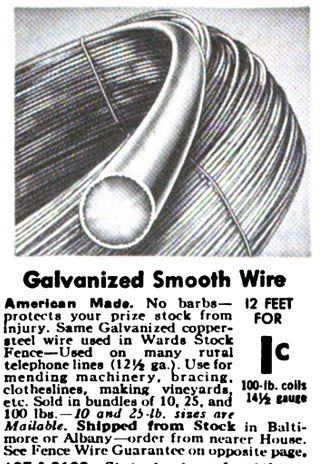
80-Rod Spool
$2.59
14-Gauge Cattle
Lots of 10 or more

Finest Quality, American Made Barbed Wire

Best grade, open hearth steel, galvanized with pure zinc just like Wards Stock Fence! Withstands the most severe weather conditions because it's "Armor Protected" against rust and corrosion. The long, sharp barbs are made of round wire, are evenly spaced, and will not slip or turn in the tightly wrapped strands. Ideal for electric fence—makes better contact. Full gauge wire as specified by standard codes of the industry. In 80-rod spools (1320 ft. or ¼ mile). **Shipped from Stock.**

	Barbs Spaced	Article Number	Ship. Wt.	Price per Spool In Lots of: Less Than 10: Galv.	Less Than 10: Alb.	10 or More: Galv.	10 or More: Alb.
14 Ga., 2 Pt. Cattle Wire	5 in.	187 A 5431	51 lbs.	$2.65	$2.68	$2.59	$2.63
14 Ga., 2 Pt. Hog Wire	3 in.	187 A 5430	54 lbs.	2.87	2.92	2.79	2.83
12½ Ga., 2 Pt. Cattle Wire	5 in.	187 A 5411	78 lbs.	3.53	3.57	3.37	3.41
12½ Ga., 2 Pt. Hog Wire	3 in.	187 A 5413	84 lbs.	3.84	3.88	3.67	3.72
12½ Ga., 4 Pt. Cattle Wire	6 in.	187 A 5414	84 lbs.	3.80	3.84	3.63	3.67
12½ Ga., 4 Pt. Hog Wire	4 in.	187 A 5415	91 lbs.	4.21	4.25	4.03	4.07

Use FHA Plan to Buy Fencing—No money down, 3 years to pay. See Index Pages for full details.



Galvanized Smooth Wire

American Made. No barbs—protects your prize stock from injury. Same Galvanized copper-steel wire used in Wards Stock Fence—Used on many rural telephone lines (12½ ga.). Use for mending machinery, bracing, clotheslines, making vineyards, etc. Sold in bundles of 10, 25, and 100 lbs.—*10 and 25-lb. sizes are Mailable.* **Shipped from Stock** in Baltimore or Albany—order from nearer House. See Fence Wire Guarantee on opposite page.

12 FEET FOR **1c**
100-lb. coils 14½ gauge

187 A 9680—State gauge and weight.

Gauge	Ft. Per Pound	10 lbs.	25 lbs.	100 lbs.
9	17 ft.	65c	$1.35	$4.75
11	26 ft.	70c	1.45	4.98
12½	39 ft.	73c	1.52	5.25
14½	66 ft.	80c	1.68	5.65
15½	84 ft.	87c	.....	.....
17	128 ft.	95c	.....	.....

Buy Heavier Weight Fencing—It Often Costs No More Per Month on Time

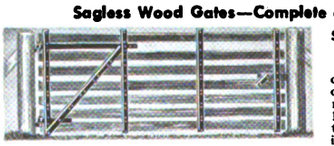
$5 a month pays for 100 rods of 39-in. Master Ajax Fence in Heavy Weight, or in longer lasting Supreme Heavy Weight! See Inside Back Cover for details.

SAVE FREIGHT Build your own Wood Gate



$3.45 5-board
Use your own boards! Wards Steels—S[illegible] half the price of re[illegible] built gates! Set ha[illegible] pairs channel steel uprights; braces; hinges for wood posts, l[illegible] irons, bolts. For 8, 10, 12 or 1[illegible] gates, 52 in. high. **Shipped f[illegible] Stock** in Baltimore or Alb[illegible] Shipping weight 37 lbs. *Mailable*
487 A 9640—For gate with five 6-in. boards..... $3.
487 A 9642—For gate with seven 4-in. boards..... 3.

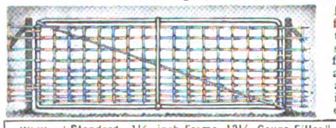
Sagless Wood Gates—Complete and Ready to Hang



$6.45 10-ft. 5-board
Built extra heavy truss type brac[illegible] makes them sagpro[illegible] rigid, strong. Brac[illegible] consists of four pairs (three pa[illegible] on 10-ft. size) of channel steel[illegible] rights, and 3 channel steel brac[illegible] 1-in. boards, oil painted for w[illegible] ther protection. All gates are in high. Complete with fittin[illegible] for wood posts. If fittings steel posts are wanted, add [illegible] and state if for 2 or 2½-in. an[illegible] posts. **Shipped from** Factor[illegible] near Cincinnati, Ohio, usually 14 extra days. **Be sure to sta[illegible] width wanted.**

Bet. Posts	Wt. Lbs.	287 A 9645 Five 6-in. Boards	287 A 9646 Seven 4-in. Boards
10 feet	90	$6.45	$6.65
12 feet	100	7.05	7.25
14 feet	110	7.65	7.75

Extra Rigid, Galvanized Steel Stock Gates

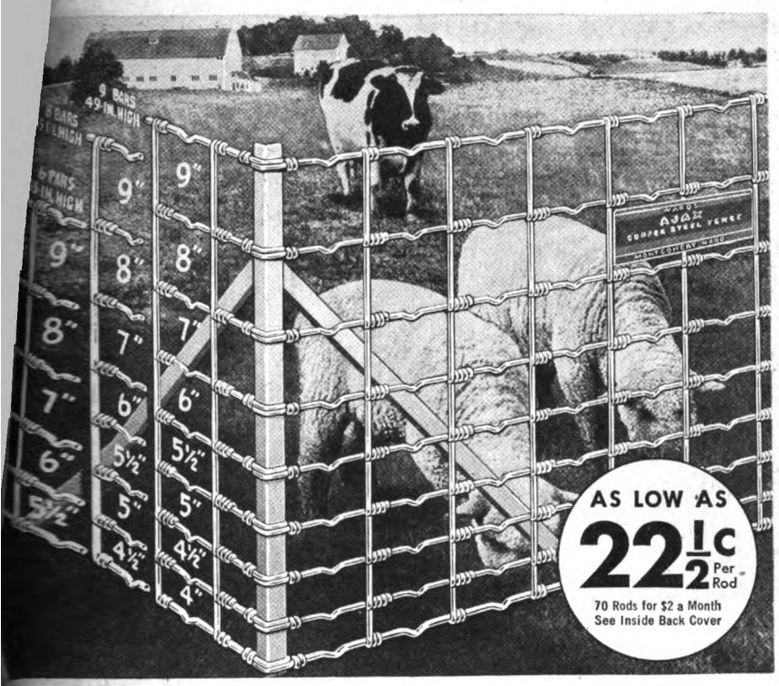


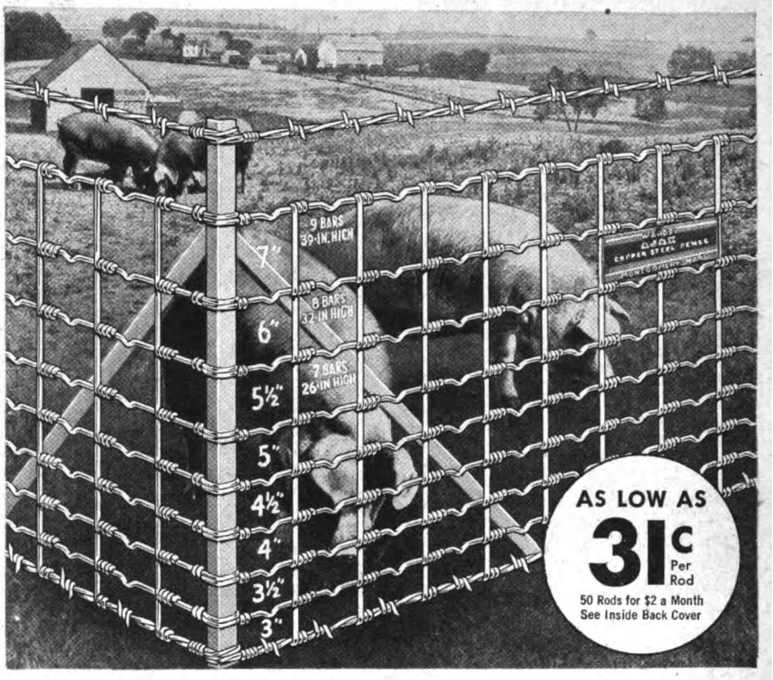
Hinge Joint Fence, inside tubu[illegible] frame. Stay wires 6 in. apart. V[illegible] tical steel tube and diagonal te[illegible] sion wire, 54 in. high. Wood po[illegible] fittings. For steel post fitting[illegible] add 50c and state if 2 or 2½-[illegible] angle posts. **Shipped from Sto[illegible]** in Baltimore or Albany, whic[illegible] ever is nearer.

Width Bet. Posts	Standard—1⅛-inch Frame, 12½-Gauge Filler: Article Number	Ship. Wt.	Price	Heavy—1⅜-inch Frame, 11-Gauge Filler: Article Number	Ship. Wt.	Price
10 ft.	187 A 9630	41 lbs.	$6.45	187 A 9635	60 lbs.	$8.85
12 ft.	187 A 9631	44 lbs.	7.35	187 A 9636	65 lbs.	9.85
14 ft.	.....	.....	.....	187 A 9637	70 lbs.	10.98
16 ft.	.....	.....	.....	187 A 9638	78 lbs.	12.45

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FENCE is Rust Resisting Copper Steel





Wards Standard Ajax Fence for Cattle, Sheep, Etc.

Same sturdy Hinge Joint Construction, same zinc galvanized copper-bearing steel wire used in Wards all-purpose Stock Fence on opposite page! Only difference is that stay wires are all spaced 12 inches apart and bottom line wires do not form such a close mesh, making it perfectly satisfactory for cattle, sheep and horses but not tight enough for hogs and smaller animals. Every bale has full 20 or 30 rods—every wire is exactly the size specified. One rod equals 16½ feet. Read "Which Stock Fence Shall I Buy?" on Page 1129. **Full Bales—shipped from Stock** in Baltimore or Albany. **Less Than Full Bales**—shipped only from Factory in Baltimore in 14 days extra. Pay price and freight as indicated in tables below.

LIGHT WEIGHT—SHOULD LAST 13 TO 15 YEARS
(Based on Gov't study on life of steel wire—see story at right below)
22½c Rod 35-in. In Full Bales
14½ Ga. ● Mesh Wires ▬ 11 Ga. ● Top, Bottom Wires

Ht.	No. Line Wires	Stays Spaced	Weight 100 Rods	Article Number	Full Bales—Pay Frt. from Baltimore or Albany: 20 Rod Bale	30 Rod Bale	Less Than Full Bales—Pay Frt. from Baltimore
35 in.	6	12-in.	325 lbs.	187 A 9385	$4.50	$6.75	30c per rod
45 in.	8	12-in.	405 lbs.	187 A 9386	5.80	8.70	39c per rod
49 in.	9	12-in.	445 lbs.	187 A 9387	6.40	9.60	43c per rod

STANDARD WEIGHT—SHOULD LAST 15 TO 18 YEARS
(Based on Gov't study on life of steel wire—see story at right below)
27c Rod 35-in. In Full Bales
12½ Ga. ● Mesh Wires ▬ 10 Ga. ● Top, Bottom Wires

35 in.	6	12-in.	500 lbs.	187 A 9365	$5.40	$8.10	36c per rod
45 in.	8	12-in.	630 lbs.	187 A 9366	7.30	10.95	48c per rod
49 in.	9	12-in.	690 lbs.	187 A 9367	7.90	11.85	52c per rod

HEAVY WEIGHT—SHOULD LAST 18 TO 20 YEARS
(Based on Gov't study on life of steel wire—see story at right)
35½c Rod 35-in. In Full Bales
11 Ga. ● Mesh Wires ▬ 9 Ga. ● Top, Bottom Wires

35 in.	6	12-in.	700 lbs.	187 A 9370	$7.10	$10.65	47c per rod
45 in.	8	12-in.	900 lbs.	187 A 9371	9.80	14.70	65c per rod
49 in.	9	12-in.	990 lbs.	187 A 9372	10.60	15.90	70c per rod

GUARANTEE . . . Wards fencing is made of the best Full Gauge, galvanized, copper bearing steel wire. Under like conditions, it will equal or exceed the life of any fencing of the same gauge, regardless of price. If not exactly as represented we refund all you paid, including freight. MONTGOMERY WARD & CO.

Wards Master Ajax Hog Fence With Built-in Barbed Wire

Master Hinge Joint Stock Fence on opposite page—galvanized copper-bearing steel—with a strand of barbed wire *built-in* to prevent hogs from rooting under. Costs less than buying regular stock fence and adding the barbed wire to it, as well as being easier to move around for hogging down corn. Many farmers make a complete all-purpose fence that will stop all animals by stringing one or two strands of barbed wire, spaced 6 to 8 inches apart, above this hog fence. Every wire is guaranteed full gauge—full bales have complete 20 or 30 rods. One rod equals 16½ ft. See "Which Stock Fence Shall I Buy?" on Page 1129. **Shipped from Stock** in Baltimore or Albany. Pay freight from nearer House.

LIGHT WEIGHT WITH 14-GA., 2-PT. BARBED HOG WIRE AT BOTTOM
Should last 13 to 15 years (based on Gov't study—see story below).
31c Rod 26-in. In Full Bales
14½ Ga. ● Mesh Wires ▬ 11 Ga. ● Top Wire

Ht.	No. Line Wires	Stays Spaced	Weight 100 Rods	Article Number	Full Bales—Pay Freight from Baltimore or Albany: 20 Rod Bale	30 Rod Bale
26 in.	7	6 in.	420 lbs.	187 A 9350	$6.20	$9.30
32 in.	8	6 in.	480 lbs.	187 A 9351	7.20	10.80

MEDIUM WEIGHT WITH 12½-GA., 2-PT. BARBED HOG WIRE AT BOTTOM
Should last 15 to 17 years (based on Gov't study—see story below).
37½c Rod 26-in. In Full Bales
13 Ga. ● Mesh Wires ▬ 10 Ga. ● Top Wire

26 in.	7	6 in.	560 lbs.	187 A 9352	$7.50	$11.25
32 in.	8	6 in.	670 lbs.	187 A 9353	8.90	13.35
39 in.	9	6 in.	770 lbs.	187 A 9357	9.70	14.55

MEDIUM WEIGHT WITH 12½-GA., 2-PT. BARBED TOP AND BOTTOM WIRE

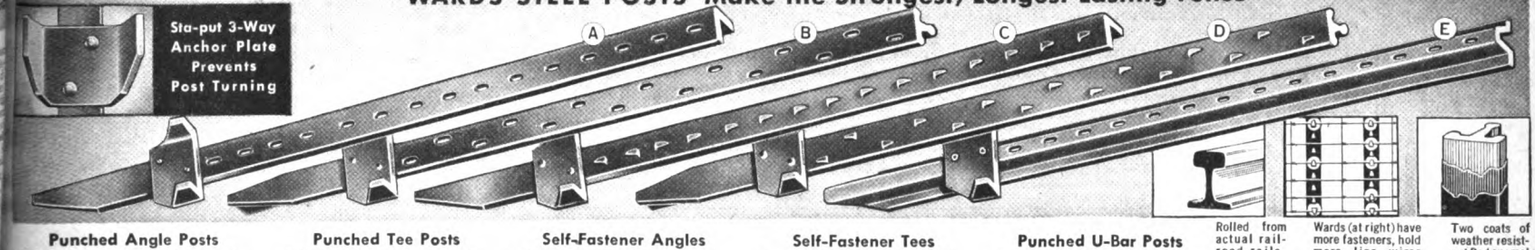
26 in.	7	6 in.	650 lbs.	187 A 9355	$7.90	$11.85
32 in.	8	6 in.	765 lbs.	187 A 9354	9.30	13.95
39 in.	9	6 in.	875 lbs.	187 A 9356	10.10	15.15

"HEAVIER GAUGE FENCE LASTS LONGER"—Says U. S. Government

"The initial cost of large-size wire is more than that of smaller sizes, but it is more economical in the long run because of its longer life," says U.S. Dept. of Agriculture in Fence Bulletin No. 1832. Remember, heavier gauge fence costs no more to install than light fence—*lasts up to 50% longer!* It's stronger—has more copper-bearing steel—more zinc galvanizing—greater resistance to rust. Install heavier fence now to assure longer service, a minimum of fence repairs. Every strand in Wards Stock Fence is full gauge as specified by the Washburn and Moen table, standard of the industry. Wards estimates for fence life shown in tables above and on opposite page are based on reliable studies made by U. S. Gov't in the climate of our north central states, and may vary slightly in other localities.

See Page 1129 for important notice about zinc galvanized fencing

WARDS STEEL POSTS Make the Strongest, Longest Lasting Fence



Rolled from actual railroad rails.

Wards (at right) have more fasteners, hold more line wires

Two coats of weather resistant Red enamel

Punched Angle Posts

Ⓐ 1¼ x 1¼ x 3/16-inch angles. 3-foot size has no anchor plate. Low As **16c** Ea.
187 A 9600—State ht.

Ht. Post Ft.	Fits Fence Ht.	Ship. Wt. Lbs.	Ship. Wt. Oz.	Price Ea. Lots of 20 or More	Price Ea. Lots of Less than 20
3	24 in.	3	6	16c	18c
5	36 in.	6	4	30c	33c
6	48 in.	7	4	37c	40c
6½	55 in.	7	12	39c	42c
7	60 in.	8	8	42c	45c
8	72 in.	9	8	48c	51c

Punched Tee Posts

Ⓑ 1⅜ x 1⅜ x ⅛-in. tee bars. Oval holes 2 in. apart. Staple clincher incl. Low As **33½c** Ea.
187 A 9601—State height.

Ht. Post Ft.	Fits Fence Ht.	Ship. Wt. Lbs.	Ship. Wt. Oz.	Price Ea. Lots of 20 or More	Price Ea. Lots of Less than 20
5	36 in.	7		33½c	35½c
6	48 in.	8	4	42c	45c
6½	55 in.	8	12	44½c	47½c
7	60 in.	9	8	48c	51c
8	72 in.	11		51c	54c

Self-Fastener Angles

Ⓒ 1¼ x 1¼ x 3/64-in. angles. No staples needed. Bottom lugs turn downward. Low As **31c** Ea.
187 A 9602—State height.

Ht. Post Ft.	Fits Fence Ht.	Ship. Wt. Lbs.	Ship. Wt. Oz.	Price Ea. Lots of 20 or More	Price Ea. Lots of Less than 20
5	36 in.	6	4	31c	34c
6	48 in.	7	4	38c	41c
6½	55 in.	7	12	40c	43c
7	60 in.	8	8	43c	46c
8	72 in.	9	8	49c	52c

Self-Fastener Tees

Ⓓ 1⅜ x 1⅜ x ⅛-in. tees. No staples needed. Bottom lugs turn downward. Low As **34½c** Ea.
187 A 9603—State height.

Ht. Post Ft.	Fits Fence Ht.	Ship. Wt. Lbs.	Ship. Wt. Oz.	Price Ea. Lots of 20 or More	Price Ea. Lots of Less than 20
5	36 in.	7		34½c	36½c
6	48 in.	8	4	43c	46c
6½	55 in.	8	12	45½c	48½c
7	60 in.	9	8	49c	52c
8	72 in.	11		52c	55c

Punched U-Bar Posts

Ⓔ Heavy Duty—2 in. across face, 3/32 in. thick. Staple clincher incl. Low As **34c** Ea.
187 A 9604—State height.

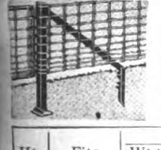
Ht. Post Ft.	Fits Fence Ht.	Ship. Wt. Lbs.	Ship. Wt. Oz.	Price Ea. Lots of 20 or More	Price Ea. Lots of Less than 20
5	36 in.	6	4	34c	36c
6	48 in.	7	4	43c	46c
6½	55 in.	7	12	45c	48c
7	60 in.	8	8	49c	52c
8	72 in.	9	8	52c	55c

Durable High-Carbon Steel—With Two Coats of Baked-on Enamel

- **Easy to Line Up**—one man can drive a post a minute. No holes to dig.
- **Protection from Lightning**—grounds electricity—safeguards stock.
- **Fireproof Fence Line**—you can burn weeds and grass underneath fence.
- **Outlast Wood**—won't rot at ground line. 3-Way anchor plate grips ground.

You get the stamina of actual railroad rails in Wards steel fence posts—they're made from one of the toughest, hardest kinds of steel made! Every post has two coats of durable Red enamel—not just painted on, but baked-on under a temperature of 220°. That means 3 to 5 years longer life with more resistance to rust than ordinary posts. Height of posts given is from tip to tip. Drive them 2 ft. deep, set a rod (16½ ft.) apart for stock fence—closer for poultry. Staple clincher included with punched posts (use 5 staples per post). Use "T" and "U" types with heavy beaded edges for extra-heavy fencing. Posts, Extensions, Post Drivers **shipped from Stock** in Baltimore or Albany. WardsGuaranteegives you satisfaction or your money back—see Pg. 1165.

Double Enameled End, Gate or Corner Posts



2½x2½x¼-in. angle steel upright; 2x2x¼-in. braces.
Dirt Set—(Pictured). Bottom plate on upright "sets" it firmly; ground-set stakes bolt to diagonal braces.
Concrete Set—no bottom plate or ground stakes; set upright and diagonal braces 2½ ft. in concrete.
Upright Only—no braces or bottom plate—set 2½ ft. in concrete. For lightweight fence and netting.



Ht. Ft.	Fits Fence	End or Gate Posts: Wt. Lbs.	187A9608 Dirt Set	187A9606 Con. Set	Corner Posts: Wt. Lbs.	187A9609 Dirt Set	187A9607 Con. Set	Upright Only: Wt. Lbs.	187A9612 Con. Set
5	30 in.	50	$2.49	$1.79	60	$3.88	$2.69	30	$1.15
6	42 in.	55	2.82	2.12	65	4.32	3.15	35	1.49
7	49 in.	60	3.05	2.45	70	4.72	3.62	40	1.69
8	60 in.	65	3.75	2.82	75	5.30	3.90	..	....
9	72 in.	70	4.35	3.20	80	6.58	4.58	..	....

New Post Extensions

Prevent animals from crowding fence. Use for barbed wire, or for adding electric wire to regular fence. Nail or bolt to wood or steel posts (nails and bolts not incl.) Red Finish. **Shipped from Stock.** Ship. wt. 1 lb.



87A9617—For line posts **15½c**
87 A 9619—For angle End, Gate, or Corner Posts (Clamp type). Each **50c**

Steel Post Driver

$1.35

Makes it easy for one man to drive posts straight. Steel tubing, 36 inches long and 2⅛ in. diameter, with weight in top end. Use with any 2-in. angle, tee, or U-bar posts. Wt. 13 lbs. **Shipped from Stock.**

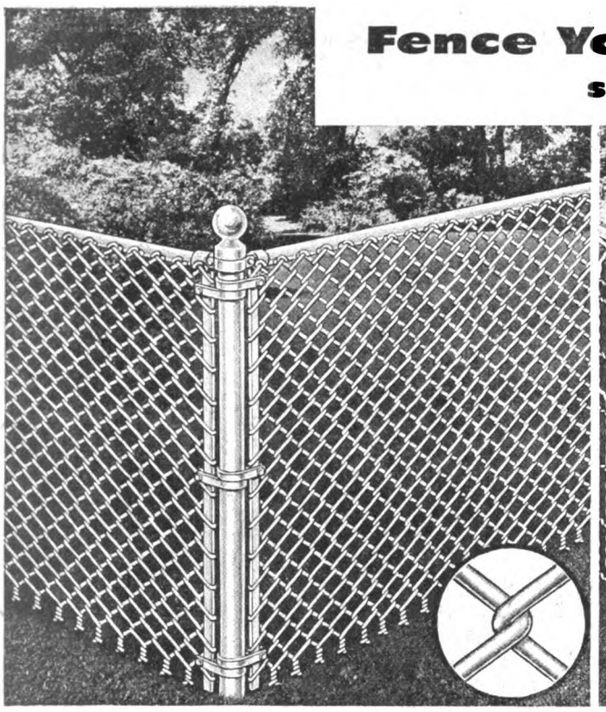


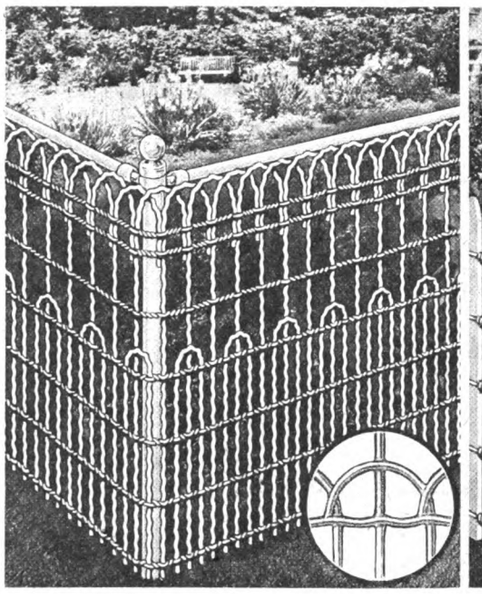
87 A 9616 Each $1.35

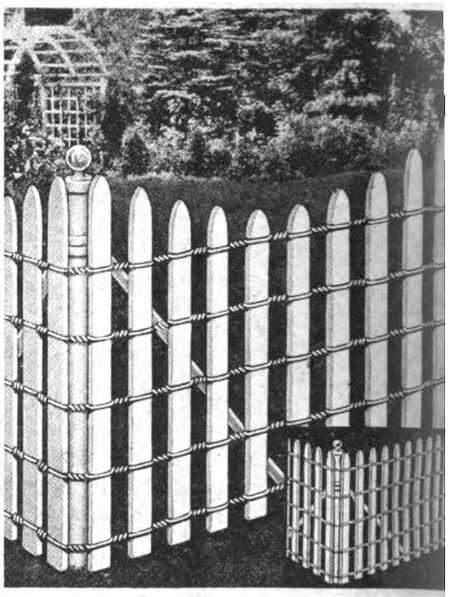
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Fence Your Home..Only $4 a Month

SEE INSIDE BACK COVER FOR DETAILS







Wards Chain Link Ornamental Fence

LOW AS **12½c** Ft.

• Strongest, most protective—most satisfactory Fence for Homes, Gardens, Parks, Industrial Plants, etc. Safeguards your property with a protective mesh of steel—uniformly stronger from top to bottom and from end to end than any other type of fence! Vast estates depend on the security of its unscalable 2-inch weave—highway departments use its super-strength for guard fences at crossings and curves—institutions, schools, parks and industrial plants rely on Chain Link almost exclusively. Every wire is made of copper-bearing steel, heavily galvanized with pure zinc for extra protection against rust and corrosion. The strands are interlocked, not twisted together, which allows free action at the joints and makes it easy to stretch fence taut and straight throughout entire length. For greatest security, install the extra heavy 9-gauge—it's stronger, lasts longer. Chain Link is sold in continuous lengths up to 50 ft.; easily spliced. Order line posts 2 feet longer than fence height; end and corner posts 2½ ft. longer than fence height.

Use Wards Time Payment Plan, see Inside Back Cover. **Shipped from Stock** in Baltimore or Albany. Send your order to nearer House. **State height.** See Special Zinc Notice on Opposite Page.

Ht. In.	Ship. Wt. 100 Ft.	13 Ga. Med. Wt. 187 A 9660	Ship. Wt. 100 Ft.	11 Ga. Hvy. Wt. 187 A 9710	Ship. Wt. 100 Ft.	9-Ga. Ex. Hvy. Wt. 187 A 9713
36	91 lbs.	12½c per ft.	145 lbs.	14½c per ft.	221 lbs.	23½c per ft.
42	106 lbs.	14½c per ft.	176 lbs.	17½c per ft	257 lbs.	27½c per ft.
48	123 lbs.	16c per ft.	191 lbs.	19½c per ft.	283 lbs.	31c per ft.
60	153 lbs.	18½c per ft.	238 lbs.	23c per ft.	355 lbs.	37c per ft.

Wire Picket Fence—Woven or Welded Style

LOW AS **8c** Ft.

• Made of galvanized copper-bearing steel wire. Strong and attractive for homes, gardens, parks, many other uses.

Woven Picket—9½-ga. crimped picket wires and 13-ga. double line wires, spaced 6 in. apart except at top (2½ in.). *Double*—picket wires 3 in. apart at top, 1⅜ in. at bottom. *Single*—pickets 3 in. apart top to bottom. The double line wires are twisted around each other and around each picket—woven construction resists strain and shock.

Welded Picket—like above, but with joints welded smooth where wires cross (small picture). 9½-ga. wires throughout. *Double*—line wires crimped, spaced 6 in. apart except at top (4 in.). Picket wires 1⅜ in. at bottom, 3 in. at top. • *Single*—crimped line wires; picket wires 3 in. apart, top and bottom. Both styles **shipped from Stock** in Baltimore or Albany. In cut lengths, or rolls of 50, 100 or 165 ft. Wt. per foot, 1 to 2 lbs. **Be sure to state height.**

Ht. In.	No. of Cables	WOVEN PICKET FENCE Double 187 A 9701 Per Ft Full Rolls	Woven Double Cut Rolls	Woven Single 187 A 9700 Per Ft. Full Rolls	Woven Single Cut Rolls	WELDED PICKET FENCE Double 187 A 9726 Per Ft Full Rolls	Welded Double Cut Rolls	Welded Single 187 A 9725 Per Ft. Full Rolls	Welded Single Cut Rolls
30	6	12c	13c	8c	9c	12½c	13½c	8½c	9½c
36	7	14c	15c	9½c	10½c	15c	16c	10½c	11½c
42	8	16c	17c	11c	12c	17c	18c	12c	13c
48	9	17½c	18½c	12½c	13½c	18½c	19½c	13½c	14½c

Scalloped Top Wood Picket

LESS THAN **16c** Ft. 50-ft. rolls

• 2-inch pointed Wood Picket painted White. Twin cable wire

Adds a charm and attractiveness its own! The clean, white, smoo surfaced Pickets form the perfe background for flowers and gard furniture. Far more economical to and easier to erect than old-fashioned fences th have to be put up one picket at a time. Won't r or buckle, because the four-sides-finished picke are firmly held by tightly twisted, 12½-ga double cable wires that resist shock. Pickets 2 in. wide and spaced 2½ in. apart—covered wi two coats of white oil paint that won't rub off hands or clothing. 42-in. height is graduated inches from 42 to 38 with 4 line wires. 48-in he is graduated from 48 to 44 in. with 5 line wir **Shipped from Stock** or Factories near Alba N. Y. or Buffalo, N. Y. in 2 weeks extra. Per (minimum 20 ft.) or in rolls of 50 feet. State heig

Article No.	Ht.	Wt. per ft.	Per ft.	Per ro
187 A 9742	3½ ft.	2½ lbs.	17c	$7.55
187 A 9743	4 ft.	3⅛ lbs.	18c	8.45



Keep Roads Open in Winter With Snow Fence!

LESS THAN **8¾c** Ft.

Don't let deep drifts block your roads and lanes—keep them clear all winter with Wards Snow Fence. It's easy to erect—can be stretched tight over uneven ground—roll it up and store it during summer. Made of 1½-in. rough finished wood pickets spaced 2 in. apart and held by tightly twisted 12½-gauge double cable wires, galvanized. Each picket painted with Red mineral preservative. Can also be used for temporary corn cribs and silos. **Shipped from Factories** near Portland, Maine, Albany, N. Y. or Buffalo, N. Y. in 2 weeks. Ship. wt. per 100 ft. 350 lbs. **State length.**

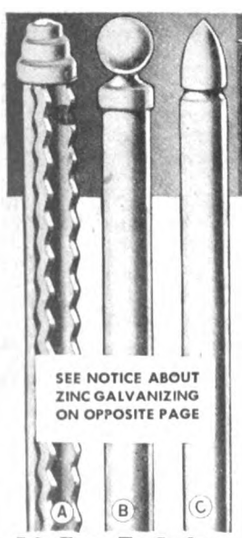
Article No.	Height	Top	50 Feet	100 Feet
287 A 9720	4 feet	Flat	$4.45	$8.65
287 A 9721	4 feet	Pointed	4.85	9.45

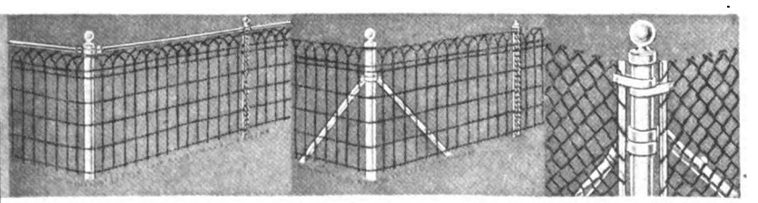
Straight Top Pickets

LOW AS **11½c** Ft.

Like above, with pickets uniform Green have creosote and oil base st —White same as above. **Shipped fro** same points as fence above. Per ft. (m 20 ft.) or 50-ft. rolls. **State length.**

Article No.	Ht.	Wt., 50 Ft	Color	Per Ft	Per Ro
287 A 9734	3½ft.	130 lbs.	Unpainted	12½c	5.75
287 A 9735	4 ft.	160 lbs.	Unpainted	13½c	6.25
287 A 9732	3½ft.	130 lbs.	Green	13c	5.95
287 A 9733	4 ft.	160 lbs.	Green	15c	6.95
287 A 9746	3½ft.	130 lbs.	White	16c	7.45
287 A 9739	4 ft.	160 lbs.	White	17c	7.95





For Fence With Top Rail
Makes strongest, best-looking installation. Braces not needed.

For Fence Without Top Rail
Tubular braces included with End, Gate and Corner Posts.

For Chain Link Fence
Tension bars and bands included in the price of post.

Zinc Galvanized or Painted Steel Posts for Ornamental Fence

AS LOW AS **87c** Ea. Line Posts

You need strong steel posts to get the best service from an ornamental fence. Wards posts last two to five times longer than wood—resist moisture and rot—eliminate the need of constant repairs. They give *complete* protection during entire life of fence.

Zinc Galvanized Posts—made of heavy gauge, finest quality copper-bearing steel, galvanized with a thick coat of zinc for utmost protection against rust and corrosion.

Aluminum Painted Posts—high-carbon steel tubing, seamless, painted inside and out.

CORNER POSTS—For Fence without Top Rail
2 inches in diameter, complete with two 1⅜-inch tubular braces with brace fittings.

Post Ht. Ft.	Wt. Lbs.	GALVANIZED 187 A 9783 Chain Link	GALVANIZED 187 A 9784 All Others	PAINTED 187 A 9763 Chain Link	PAINTED 187 A 9764 All Others
5½	49	$5.19	$4.35	$3.85	$3.07
6	51	5.42	4.49	4.05	3.16
6½	53	5.73	4.68	4.38	3.38
7½	57	6.22		4.96	

CORNER POSTS—For Fence with Top Rail
2 inches in diameter, complete with fittings for 1⅜-in. top rail (order separately below).

Wt. Lbs.	GALVANIZED 187 A 9753 Chain Link	GALVANIZED 187 A 9754 All Others	PAINTED 187 A 9773 Chain Link	PAINTED 187 A 9774 All Others
26	$3.39	$2.45	$2.39	$1.59
28	3.55	2.63	2.64	1.78
30	3.82	2.76	2.85	1.96
34	4.32		3.18	

END, GATE POSTS—For Fence without Top Rail
2 inches in diameter, complete with one 1⅜-in. tubular brace, and brace fitting.

Post Ht. Ft.	Wt. Lbs.	GALVANIZED 187 A 9781 Chain Link	GALVANIZED 187 A 9782 All Others	PAINTED 187 A 9761 Chain Link	PAINTED 187 A 9762 All Others
5½	33	$3.52	$3.10	$2.49	$2.03
6	34	3.64	3.23	2.65	2.19
6½	36	3.89	3.42	2.82	2.39
7½	40	4.27		3.23	

END, GATE POSTS—For Fence with Top Rail
2 inches in diameter, complete with fittings for 1⅜-in. top rail (order separately below).

Wt. Lbs.	GALVANIZED 187 A 9751 Chain Link	GALVANIZED 187 A 9752 All Others	PAINTED 187 A 9771 Chain Link	PAINTED 187 A 9772 All Others
22	$2.49	$2.14	$1.69	$1.32
23	2.68	2.24	1.84	1.48
25	2.85	2.43	2.12	1.62
30	3.27		2.53	

LINE POSTS—For Fence without Top Rail
1⅝ inches in diameter, complete with tie wires. Choice of (A) Corrugated, or Tubular with ball (B) on galvanized, or pointed (C) on painted top.

Post Ht. Ft.	Wt. Lbs.	GALVANIZED 187 A 9780 (A) Corrugated	GALVANIZED 187 A 9789 (B) Tubular	PAINTED 187 A 9760 (C) Tubular
5	8½	99c	$1.39	87c
5½	9	$1.17	1.49	$1.02
6	10	1.28	1.62	1.14
7	12	1.45	1.83	1.29

LINE POSTS—For Fence with Top Rail
1⅝ inches in diameter, complete with tie wires and fittings for 1⅜-in. diam. top rail. Choice of Corrugated, or Tubular with ball or pointed top.

Wt. Lbs.	GALVANIZED 187 A 9750 Corrugated	GALVANIZED 187 A 9759 Tubular	PAINTED 187 A 9770 Tubular
9	$1.15	$1.42	99c
9½	1.28	1.52	$1.08
10½	1.37	1.75	1.18
12½	1.54	1.89	1.32

Top Rail Only—steel tubing, 1⅜-in. diam. Random lengths to 19 ft. with coupling.
187 A 9755—Galvanized Top Rail. **State length.** Shipping wt. per ft. 2 lbs. Per foot.....17c
187 A 9775—Painted Top Rail. **State length.** Shipping wt. per ft. 2 lbs. Per foot.....14½c

It's Easy To Order Wards Fence Posts

1. Order the Corner Posts—they should be 2½ ft. longer than fence height. Set 2½ ft. deep in concrete. **State height.**

2. Order the End and Gate Posts—should be 2½ ft. longer than fence height. Set them 2½ ft deep in concrete. **State height.**

3. Order the Line Posts—figure one post about every 10 ft. Drive corrugated 2 ft. deep—need no concrete; set tubular 2-ft. in concrete. **State height.**

Posts for Chain Link Fence, pay price under "Chain Link" column. Posts for all other styles, pay price under "All Others." All Posts and Top Rail **shipped from Stock** in Baltimore or Albany, whichever is nearer. Use your Credit to buy on Time Payments—see Inside Back Cover for complete details.

1128 WARDS BA

ORNAMENTAL LAWN GATES



Woven Picket $3.35 30-in.

Chain Link $3.85 36-in.

Wood Picket $4.35 36-in.

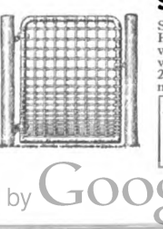
Woven and welded picket, and chain link filler same as fence above. Frames are 1½-in. galv. steel tubing. Wood Picket Gate has 2x1⅜-in. end pickets 2x¾-in. center pickets, diagonal braces. Spring latches and fittings for wood posts included. Shipped from same points as fence each gate fits. **State width, height.** If for steel posts, add 50c to price below and specify whether for 2 in. tubular or 2½-in. angle posts.

Approx. Height In.	Width Betw. Posts	187 A 9705 Woven Pkt. Filler Ship. Wt.	Each	187 A 9704 Welded Pkt. Filler Ship. Wt.	Each	187 A 9717 Chain Link Filler Ship. Wt.	Each	187 A 9748 Wood Picket Ship. Wt.	Each
30	3 ft.	16 lbs.	$3.35	16 lbs.	$3.45				
36	3 ft.	17 lbs.	3.65	17 lbs.	3.75	20 lbs.	$3.85	20 lbs	$4.35
42	3 ft.	18 lbs.	3.78	18 lbs.	3.88	22 lbs.	4.15	21 lbs.	4.45
48	3 ft.	19 lbs.	3.98	19 lbs.	4.08	24 lbs.	4.45	22 lbs	4.50
42	3½ ft.	19 lbs.	3.98	19 lbs.	4.08	.....	.....	State whether Green, White, or Natural finish	
48	3½ ft.	22 lbs.	4.15	22 lbs.	4.25	.....	.....		
60	3½ ft.	.....	.....	.....	.....	28 lbs.	5.58		

Double Ornamental Driveway Gates

Sagless type frames of 1½-in. galv. steel tubing; ⅜-in. upright bar and diagonal wires. Wrought iron tops. Choice of woven picket (double) or chain link filler—see above. Latches and fittings for wood posts included. Shipped from same points as fence each gate fits. **State width and height.** If fittings for steel posts are wanted, add 80c to price below and specify whether for use on 2-in. tubular or 2½-in. angle gate posts.

Approx. Height In.	187 A 9706 Woven Wire Double Picket Filler 8 Ft. Bet. Posts Ship. Wt.	Each	10 Ft. Bet. Posts Ship. Wt.	Each	12 Ft. Bet. Posts Ship. Wt.	Each	187 A 9718 Chain Link Filler 12 Feet Between Posts Ship. Wt.	Each
36	51 lbs.	$8.60	58 lbs.	$10.25	64 lbs.	$11.65	66 lbs.	$13.45
42	55 lbs.	8.95	62 lbs.	10.55	69 lbs.	11.95	71 lbs.	13.95
48	59 lbs.	9.35	69 lbs.	10.85	73 lbs.	12.35	76 lbs.	14.75
60	.....	.....	.....	.....	.....	.....	92 lbs.	15.85



Single Ornamental Garden Gates

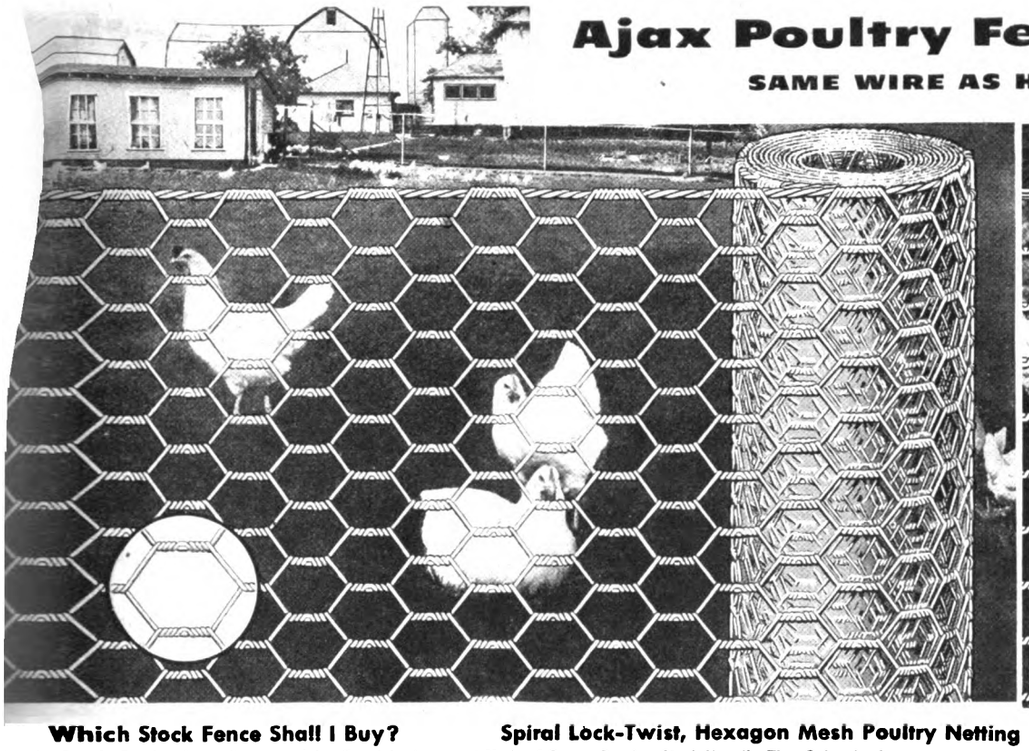
Sagproof—made of rigid 1⅛-in. galv. steel tubing. Hinge Joint poultry fence filler. With latch and wood post fittings—if fittings for steel posts are wanted, add 50c and state if for 2-in. tubular or 2½-in. angle posts. **Shipped from Stock** in Baltimore or Albany. *Not Mailable.*

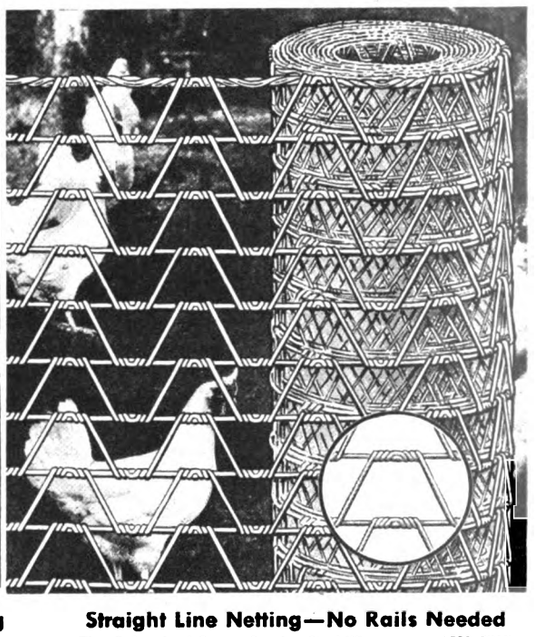
Article No.	Betw. Posts	Height	Ship. Wts.	Each
187 A 9650	36 in.	42 in.	15 lbs.	$3.15
187 A 9651	42 in.	48 in.	17 lbs.	3.39
187 A 9652	42 in.	58 in.	19 lbs.	3.65
187 A 9653	42 in.	72 in.	22 lbs.	3.95

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Ajax Poultry Fence and Netting

SAME WIRE AS HEAVY STOCK FENCE





Which Stock Fence Shall I Buy?

Wards Stock Fencing (preceding pages) is offered in three types. Construction features, wire, quality, and galvanizing are identical in all three—they differ in wire spacing only. Wards recommend the heavier gauges for longer life.

Type 1—Master Ajax Fence—the all-purpose fence—for all animals including horses, dairy and beef cattle, sheep, hogs. It is hog-tight because bottom wires are spaced unusually close. With 6-in. stay it makes the strongest, most rigid, all-purpose fence. 12-in. stay spacing is next in strength.

Type 2—Standard Ajax Fence—a general utility fence for all stock except hogs. Not hog-tight, because bottom wires are not as closely spaced as in Master. Offered in 12-in. stay spacings only, it is suitable for all large animals.

Type 3—Master Ajax Hog Fence—up to 39-in. height only, same close spacing as Master Ajax Fence. In 6-in. stay only and with barbed bottom wire, it is completely hog-tight. Use for all stock by adding one or two strands of barbed wire above it.

Which Poultry Fence Shall I Buy?

Wards Poultry Fence—in two constructions which are identical in quality of wire and the zinc galvanizing.

Hinge Joint—like Wards Stock Fence. Stretches as easily, will last as long. Suitable for poultry and most light animals. Light and Med. wts. have chick-tight bottom wires; other wts. turn grown poultry, turkeys, rabbits, and larger animals.

Twist Joint—Low priced poultry fencing in loose weave of simple; interlocked construction. Must be tightly stretched.

Wards Poultry Netting—made in light gauges only, costs the least of any fencing. In two types, same in quality.

Hexagon Mesh—most widely used. For extra rigidity, this type is often installed attached to top and bottom rails.

Straight Line Netting—has parallel line wires—stretches rigid and erect without the use of top or bottom rails.

Spiral Lock-Twist, Hexagon Mesh Poultry Netting

- **Made of Copper-Bearing Steel, Heavily Zinc Galvanized.**
- **Top and Bottom Wires Double Stranded—Greater Rigidity.**
- **Also used for Backing on Stock Shelves, Full View Partitions, Reinforcing Concrete, Trellises, Kennels, Etc.**

LESS THAN **2/3¢** Per Ft. In 150-ft. bales

Strong and rigid, with correct, uniform spacings. Rolls out perfectly flat—stretches straight and true to either steel or wood posts without sagging or bulging. All wires are the exact size as specified; bales are a full 50 and 150 ft. long. Use 1-in. mesh for small chicks, 2-in. mesh for larger poultry.

Double Protection Against Rust and Corrosion. First, because it's made from the finest quality, open hearth steel wire, containing .20% to .30% copper. Tests show that this addition of copper makes steel *twice* as rust-resisting as ordinary steel wire! Second, because it's heavily zinc galvanized before being woven. The pure, molten zinc is applied smoothly and evenly, with no thin spots where rust can get a start. 19-gauge is about 20% stronger than 20-gauge—lasts longer. *All sizes except 60 and 72-in. Mailable.* **Shipped from** Baltimore, Albany or Pittsburgh. In 50 and 150-ft. bales. **State height.**

Ht. In.	2-In. Mesh—19-Ga. Lbs.	P187 A 5433 50 Ft.	P187 A 5433 150 Ft.	2-In. Mesh—20-Ga. Lbs.	P187 A 5434 50 Ft.	P187 A 5434 150 Ft.	1-In. Mesh—20-Ga. Lbs.	P487 A 5432 50 Ft.	P487 A 5432 150 Ft.
12	4	52c	$1.10	3	47c	97c	6	72c	$1.75
18	5	69c	1.65	4	59c	$1.39	9	$1.05	2.68
24	7	84c	2.09	6	69c	1.72	11	1.28	3.38
30	8	96c	2.45	7	83c	1.97	13	1.52	3.98
36	10	$1.14	2.98	8	92c	2.38	16	1.79	4.95
48	12	1.38	3.68	10	$1.18	3.10	20	2.28	6.45
60	15	1.69	4.58	13	1.36	3.19	..	....	....
72	18	1.97	5.42	14	1.59	4.32	..	....	....

NOTICE: Zinc, used in galvanizing fence wire, posts and gates is a material vital to the National Defense Program, and its use for commercial purposes is restricted. Wards stocks of galvanized fencing materials are sufficient, we believe, to fill all orders received from this Catalog. In the event stocks of certain sizes are used up and we are unable to replenish them, we will notify you and recommend a substitute size, or refund your money if you wish.

Straight Line Netting—No Rails Needed

- **Zinc-Galvanized Copper-Bearing Steel Wire.**
- **Line Wires Run Parallel Full Length of Roll.**
- **Use for Rabbit Hutches, Flower Bed Guards, Baseball Backstops, Trash Burners, etc.**

LESS THAN **2/3¢** Per Ft. In 150-ft. bales

Stay wires interlock line wires to form the strongest, most rigid Poultry Netting made! Erects quickly and evenly with a minimum of waste—no top or bottom rails needed, fewer posts required. Can be taken down and restreched without losing its shape.

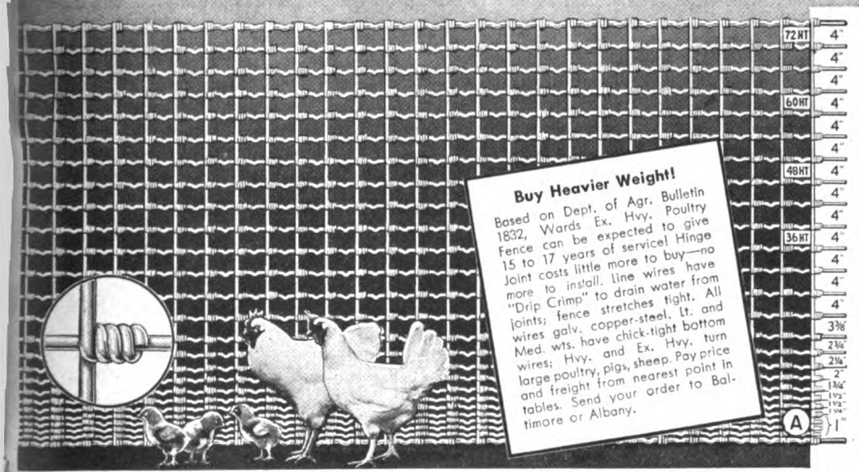
Made of Copper-Bearing Steel Wire—zinc galvanized before being woven with a protective coat of pure molten zinc. Outlasts ordinary steel wire 2 to 1—zinc galvanizing resists cracking, chipping, or flaking: All wires full gauge as specified in the tables below; top and bottom wires are double stranded for extra strength. 19-ga. is well worth the slightly higher cost — it's 20% stronger than 20-ga. **Shipped from Stock** in Baltimore, Albany or Pittsburgh. Order from nearest house. *All sizes except 60 and 72-inch are Mailable.* Use 1-inch (between line wires) mesh for small chicks, 2-inch mesh for larger poultry. Sold in full bales of 50 and 150 ft. only. **State height.**

Ht. In.	1-In. Mesh 20-Ga. Wt.	P187 A 5416 50 Ft.	P187 A 5416 150 Ft.	2-In. Mesh 20-Ga. Wt.	P187 A 5418 50 Ft.	P187 A 5418 150 Ft.	2-In. Mesh 19-Ga. Wt.	P187 A 5417 50 Ft.	P187 A 5417 150 Ft.
12	5 lbs.	75c	$1.87	3 lbs.	47c	97c	....	....	....
18	8 lbs.	$1.05	2.68	5 lbs.	59c	$1.39	6 lbs.	69c	$1.65
24	10 lbs.	1.28	3.38	6 lbs.	69c	1.72	7 lbs.	84c	2.09
36	14 lbs.	1.79	4.95	8 lbs.	92c	2.38	10 lbs.	$1.14	2.98
48	19 lbs.	2.28	6.45	10 lbs.	$1.18	3.10	13 lbs.	1.38	3.68
60	24 lbs.	2.79	7.85	13 lbs.	1.36	3.68	16 lbs.	1.69	4.58
72	....	....	....	15 lbs.	1.59	4.32	19 lbs.	1.97	5.42

ONLY $2 DOWN ON $10 TO $14 WORTH OF POULTRY NETTING

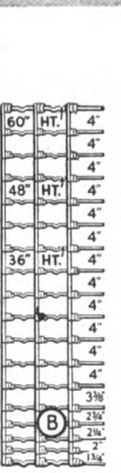
Buy on Time Payments—see Inside Back Cover for Details

CUT COSTS WITH WARDS POULTRY FENCE THAT LASTS UP TO 17 YEARS!



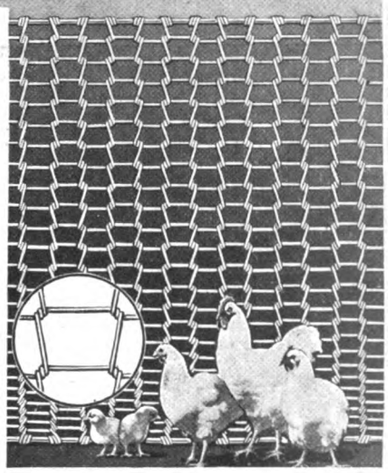
Buy Heavier Weight!

Based on Dept. of Agr. Bulletin 1832, Wards Ex. Hvy. Poultry Fence can be expected to give 15 to 17 years of service! Hinge Joint costs little more to buy—no more to install. Line wires have "Drip Crimp" to drain water from joints; fence stretches tight. All wires galv. copper-steel. Lt. and Med. wts. have chick-tight bottom wires; Hvy. and Ex. Hvy. turn large poultry, pigs, sheep. Pay price and freight from nearest point in tables. Send your order to Baltimore or Albany.



USE YOUR CREDIT

See Inside Back Cover



Hinge Joint Poultry Fence Lasts Longer—Stretches Tighter!

$2.75 150-ft. Lt. Wt. 36-INCH

LIGHT WEIGHT—Should Last 5 to 7 Years. (See Govt. Story on Stock Fence page.) Top, bottom wires 15½ ga.; others 17 ga. *Chick-tight line wires spaced like (A) above.* Sold in full bales of 150-ft. only.

Height	Stays Spaced	Line Wires	Ship. Wt. 150 Ft.	Article Number	Per 150-ft. Bale from Pittsburgh	Per 150-ft. Bale from Balt. & Alb.
36 inch	6 inch	17	33 lbs.	187 A 9500	$2.75	$2.89
	4 inch	17	38 lbs.	187 A 9510	3.45	3.59
48 inch	6 inch	20	40 lbs.	187 A 9501	3.65	3.82
	4 inch	20	45 lbs.	187 A 9511	4.05	4.22
60 inch	6 inch	23	46 lbs.	187 A 9502	4.09	4.25
	4 inch	23	53 lbs.	187 A 9512	4.85	5.03
72 inch	6 inch	26	53 lbs.	187 A 9503	4.85	5.05
	4 inch	26	62 lbs.	187 A 9513	5.55	5.77

MEDIUM WEIGHT—Should Last 10 to 12 Years. (See Govt. Story on Stock Fence page.) Top, bottom wires 12½ ga.; others 15½ ga. *Chick-tight line wires like (A) above.* In full bales of 165 and 330 ft.

Height	Stays Spaced	Line Wires	Ship. Wt. 165 Ft.	Article Number	Pittsburgh 165 ft.	Pittsburgh 330 ft.	Balt. & Alb. 165 ft.	Balt. & Alb. 330 ft.
36 inch	6 inch	17	57 lbs.	187 A 9520	$4.39	$8.78	$4.58	$9.15
48 inch	6 inch	20	68 lbs.	187 A 9521	5.15	10.30	5.39	10.78
60 inch	6 inch	23	80 lbs.	187 A 9522	5.98	11.95	6.28	12.56
72 inch	6 inch	26	92 lbs.	187 A 9523	6.85	13.70	7.19	14.38

HEAVY WEIGHT—Should Last 13 to 15 Years. (See Govt. Story on Stock Fence page.) Top and bottom wires 11 ga.; others 14½ ga. *Line wires like (A) above.* In full bales of 165 and 330 ft.

Height	Stays Spaced	Line Wires	Ship. Wt. 165 Ft.	Article Number	Pittsburgh 165 ft.	Pittsburgh 330 ft.	Balt. & Alb. 165 ft.	Balt. & Alb. 330 ft.
36 inch	6 inch	17	77 lbs.	187 A 9560	$4.89	$9.78	$5.15	$10.30
48 inch	6 inch	20	95 lbs.	187 A 9561	6.25	12.50	6.59	13.18
60 inch	6 inch	23	109 lbs.	187 A 9562	7.27	14.54	7.67	15.34
72 inch	6 inch	26	127 lbs.	187 A 9563	8.55	17.10	8.98	17.96

HEAVY WEIGHT *Line Wires Spaced Like (B) Above*

Height	Stays Spaced	Line Wires	Ship. Wt. 165 Ft.	Article Number	Balt. & Albany 165 ft.	Balt. & Albany 330 ft.
36 in.	6 in.	12	70 lbs.	187 A 9540	$4.42	$8.84
48 in.	6 in.	15	77 lbs.	187 A 9541	5.75	11.50
60 in.	6 in.	18	89 lbs.	187 A 9542	6.48	12.96

FENCING FREIGHT RATES ARE UNUSUALLY LOW

Build Your Order up to 100 lbs. and Ship by Freight. See Rate Table in Back of Book.

Your money back if not satisfied—also all transportation charges you paid.

Twist Joint Poultry Fence

$2.75 150 ft. 36-Inch

Strong, yet low priced—easy to erect and stretch. Interlocked construction; loops will not spread. Lt. wt. **shipped from Stock**, Hvy. wt. **shipped from Factory** in Indianapolis, Ind., usually in two weeks. Lt. wt. sold in 150-ft. bales only—Hvy. wt. in 165 or 330-ft. bales. **State height.**

LIGHT WEIGHT—Should last 5 to 7 Years. Top, Bottom Wires 14½ ga.; others 18 ga. Line wires, 1½ in. apart at bottom, 4 in. at top, stays 4½ in. apart.

Height	Line Wires	Wt. 150 Ft.	Article No.	150 Ft.
36 in.	17	28 lbs.	187 A 9460	$2.75
48 in.	20	32 lbs.	187 A 9461	3.39
60 in.	23	38 lbs.	187 A 9462	3.97
72 in.	26	43 lbs.	187 A 9463	4.55

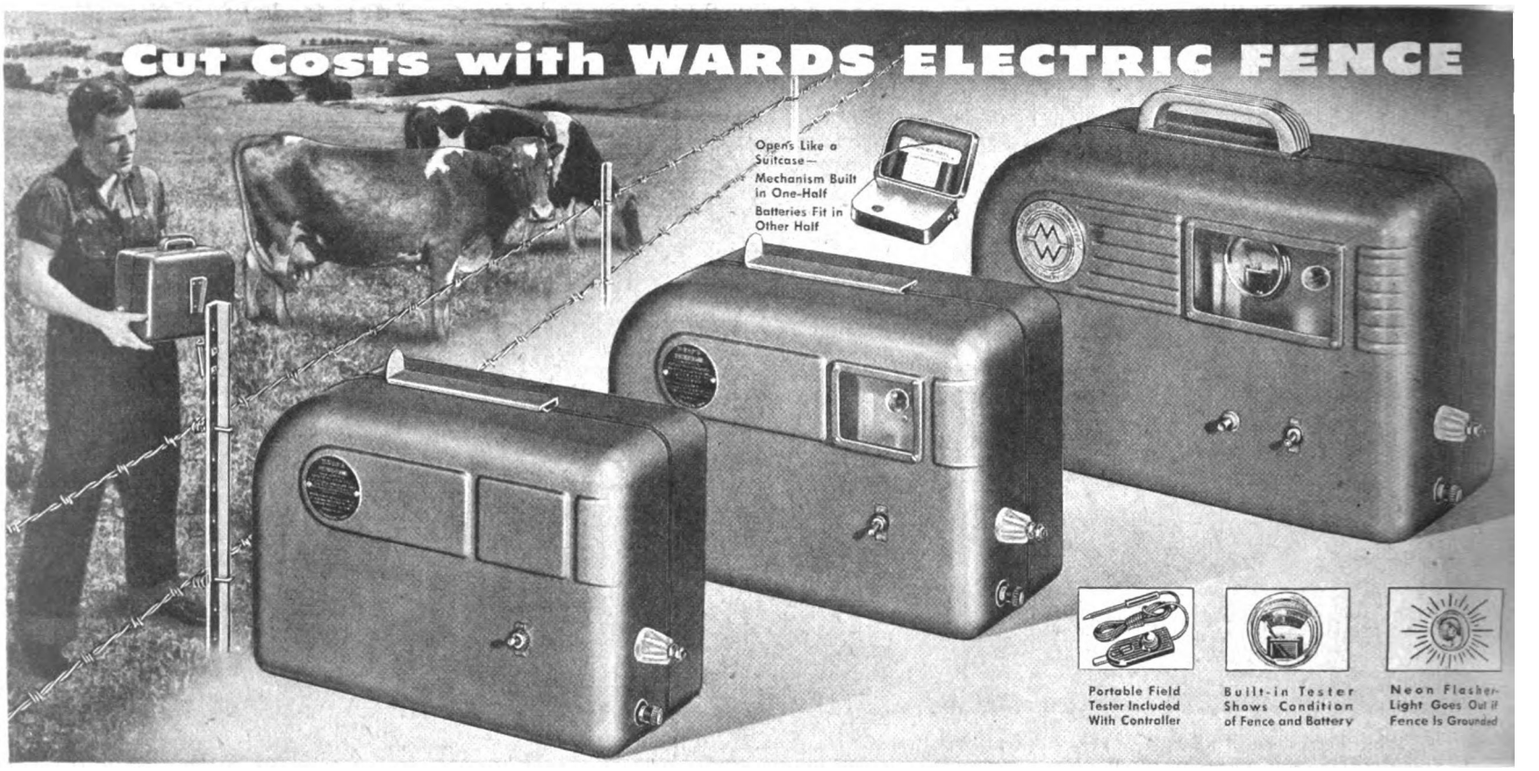
HEAVY WEIGHT—Should last 13 to 15 Years. Top, Bottom Wires 11 ga.; others 14½ ga. Line wires, 1¼ in. widening to 6 in. at top, stays 6 in. apart.

Height	Line Wires	Wt. 165 Ft.	Article No.	165 ft.
36 in.	15	64 lbs.	287 A 9470	$4.40
48 in.	17	74 lbs.	287 A 9471	4.95
60 in.	19	85 lbs.	287 A 9472	5.65

See table of freight rates Back of Book

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Cut Costs with WARDS ELECTRIC FENCE



Wards Standard Controller—GOOD

$9.25 Less Batteries

- **Improved Double Relay Type Mechanism.**
- **All-Weather, Time Controlled Shock.**
- **Weatherproof Case, Built-in Battery Compartment. Use Indoors or Outdoors.**

For those who do not need the extra conveniences in models at right—charges up to 15 miles of fence. Legal in all states. 16-ga. case, mounting bracket, overload protector, on-and-off switch—no radio interference. 9x13x6 in. deep; baked-on Pastel Green enamel. Lightning a restor. Complete with ground clamp, battery terminal wires, instructions for installing. *Mailable.*

587 A 9400—Controller only. Ship. wt. 15 lbs..... **$9.25**

587 A 9410—Controller above complete with Wards 6-volt Hy-Watt battery. Shipping weight 27 lbs..... **$10.45**

Wards Superior Fence Controller—BETTER

$11.75 Cash. Less Batteries

- **Built-in Flasher—Tells Whether Unit Is Charging.**
- **Double Relay Mechanism—Smoother, Lasts Longer.**
- **Time-Controlled Shock—Effective in All Weather.**
- **Weatherproof, Dust-tight Battery Case for Indoor or Outdoor Installation. Approved in All States.**

Gives you efficient, low cost Electric Fencing, and tells you at a glance that unit is charging. Flasher Bulb winks every time current surges through wire. Charges up to 15 miles of fence. Built-in lightning arrestor.

Case is 16-gauge steel, finished in baked-on Pastel Green auto enamel. Has rigid mounting bracket, current overload protector, on-and-off switch. Cabinet is 9 by 13 by 6 inches deep. With ground clamp, battery terminal wires, instructions. Only $2 down on Time—See Inside Back Covr. *Mailable.*

587 A 9401—Controller only, no batteries. Ship. wt. 15 lbs. Cash... **$11.75**

587 A 9411—With 6-volt Hy-Watt battery. Wt. 27 lbs. Cash..... **12.95**

Wards Supreme Fence Controller—BEST

$17.78 Cash. Less Batteries. $2.50 a Month

- **New Type Mechanism**—Double Relay System eliminates vibration and cuts wear to a minimum
- **New Weather-tight Case**—heavy 16-gauge steel
- **All-Weather, Time Controlled Shock**—Powerful—effective on either wet or dry ground.
- **Built-in Battery and Fence Tester**—shows both strength of battery and condition of fence line.
- **Built-in Flasher**—tells you at a glance if fence is charging.
- **Portable Field Tester**—for use on fence line away from controller

One of the most complete, self-contained electric fence controllers you can buy—has *everything* you need for most efficient operation. Nothing more to buy—remember that when comparing prices.

Specially Designed Case—made of heavy, 16-gauge steel as required by Underwriters' Laboratories. Rigid mounting bracket, carrying handle. Mechanism is sealed in one half—batteries install in other half. Finished with Cherokee-Red auto enamel, baked-on for durability.

Dependable Double Relay Mechanism—no moving parts to oil. Current overload protector prevents damage should more than 6 volts be hooked up to unit by mistake; correct hook-up and set operates.

All-Weather, Time Controlled Shock—requires no special adjustment to meet changing soil conditions. Instead of cutting the power of the shock in half, Wards regulate its duration. Only 1/1000 of a second (about 30 to 55 times a minute) this powerful shock is strong enough for all farm animals, yet so *brief* it does not have any harmful effect. Batteries last up to 4 months. Built-in lightning arrestor protects mechanism.

Flasher Bulb, Battery and Fence Tester are mounted behind window in front of 10 by 15 by 6-in. deep cabinet. Charges up to 15 miles of fence—fence lanes, pastures and corn fields and charge all from one central unit. Complete with ground clamp, terminal wires and instructions. Use your Credit—See Inside Back Cover. *Mailable.*

587 A 9402—Controller only, no batteries. Ship. wt. 18 lbs.... **$17.78**

587 A 9412—With 6-volt "Hy-Watt" battery. Wt. 30 lbs..... **18.98**

How to get the best results with Wards Electric Fence

For Cattle and Horses—Use one wire, placed 30 to 36 in. high.

For Hogs—Use one wire, 12 to 16 in. high. Young pigs can be controlled by adding another wire placed about 8 in. above ground.

For Sheep and Goats—Hardest to control, because their wool and hair serves as insulation. Two wires, 15 and 24 in. above ground.

For Dry or Sandy Soil—Two wires; top one charged, bottom grounded.

$4 DOWN BRINGS A COMPLETE ELECTRIC FENCE OUTFIT

Wards Supreme Controller and all Accessories—see Back Cover

NEW! Contact Shock Electric Fence



$21.25 Cash. $3.50 a Month

Uses Power Line—For 110-Volt A.C. Circuit

- **16-Ga. Case as required by Underwriters' Laboratories.**
- **No moving parts to get out of order. Two Tubes show that controller is operating and if fence is grounded.**
- **Approved in all States. Complete with Field Tester.**

Use your power line to have the most economical electric fence of all! No batteries to replace and Wards Contact Shock Controller—just plug into electrical outlet.

New Contact Shock Type—delivers instant shock *only when animal contacts wire* but fence is charged at all times. Uses practically no current—operating cost is usually less than ½c daily—12c to 15c per month. Weeds do not "short" it completely or have any harmful effect on mechanism—shocks animals effectively even with weeds in full contact with wire! Built-in lightning arrestor.

Uses Two Tubes—guaranteed 1 year, easily replaced. (1) A radio converter tube converts high line voltage into direct current, lights up to show that fence is in operation. (2) A patented high voltage discharge tube builds up charge, releases it—acts as a flasher to show if fence is grounded.

Dustproof, 16-Gauge Steel Case—with baked-on Cherokee Red auto enamel. V-type, wedge shape rigid mounting bracket. Comfort grip carrying handle. Tubes clearly visible and easily replaced through weathertight window in front of cabinet. Wards recommends 110-volt units be installed indoors only. Case 10x15x6 in. deep. On-and-off switch; 5 ft. of cord, plug. With field tester, ground clamp, instructions. See Terms on Inside Back Cover. *Mailable.*

587 A 9403—For 110-volt, 60-cycle A.C. circuit. Ship. wt. 22 lbs. Cash... **$21.25**

COMPLETE ELECTRIC FENCE ACCESSORIES

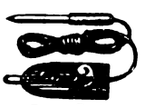
Wards 3-in-1 Rain-Shed Insulators Prevent Shorts!

Rain drips off ridges—no water film collects. Wood post insulators have nail, leather washer and wire clip ("C" above) for holding wire. Insulators for punched steel line posts include post fastener and wire clip (C).

Article No.	Type	Wt. 100	Each	10	100
(A) 587 A 2593	Wood Post	15 lbs.	2½c	20c	$1.85
(B) 587 A 2595	Steel Post	16 lbs	2½c	21c	1.95

(C) **87 A 2590—Fence Wire Clips.** Wt. 12 oz. Per 100..30c

(D) **87 A 2584—Corner Post Insulators**—For steel or wood corner posts. Porcelain. Ship. wt. 4 oz. Each..... **2½c**



Fence Tester

Portable. Tests *any* controller. Neon tube flashes to indicate if fence is charged. Dial shows strength of shock. Ship. wt. 6 ounces.

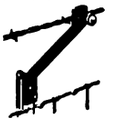
87 A 2589..... **65c**



Gate Latch

Grooved rubber handle for insulation. Spring wire keeps fence wire tight. With hook. Ship. wt. 7 ounces.

87 A 2596. **19c**



Post Extension

For adding elec. wire to woven fence. 1 foot long—also holds 4 strands of barbed wire.

87 A 9617 Wt. 1 lb. Ea. **15½c**



Steel Posts

Punched 1⅜ x 1¼-in. 11-ga. steel angles, 4 ft. long. 2 coats Red enamel.

187 A 9614—Wt. 5 lbs. Ea. **23c**

Ground Rod

6 ft. long, ½-in. diam. For all elec. fence. Wt. 4 lbs.

487 A 2591..**65c**

Elec. Fence Wire

See Page 1126.



Fence Signs

Required by law in many states. Yellow; Black letters. 4 x 8 in. Wt. ea. 4 oz.

87 A 2599.. **5c**

10 for. . . . **48c**



6-Volt Battery

For any electric fence controller. Metal case, 10⅜ x 2¹⁵⁄₁₆ x 7¾ in. Wt. 12 lbs.

586A4744X Each..... **$1.29**

FENCE TOOLS

Lever Wire Stretcher

72c (E) Malleable Iron—won't break. Grips any size, any length plain or barbed wire. Hold with one hand, drive staple with other. Rust-resisting Green finish. Handle not incl. 8 in. long.

87 A 9669—Wt. 3 lbs. 12 oz..**72c**

Fence Wire Grip

35c (F) Use with plain or barbed wire stretchers. Strong, non-slip jaws. Malleable iron — rust-resisting Green finish. Swivel eye.

87 A 9668—Ship. wt. 1 lb....**35c**

Worm Gear Fence Stretcher

$7.35 (G) Here's a stretcher that's so compact, so easy to use that you can stretch your woven fencing single-handed! One man can stretch any size fence! Rugged Malleable iron frame and handle. Horizontal handle and worm gear give you greater "pull" — greater mechanical advantage — than ordinary lever types! Includes 4 ft. 9 in. wood clamping bars, strong steel grip wire release and 7 feet of ⅝-inch tested chain. Wt. 33 lbs. *Mailable.* **Shipped from Balt., Alb., or Pitts.**

P387 A 9678—Each.....**$7.35**

Wire Reel Discharger

$3.25 Picks up and rolls approximately 100 rods of smooth or barbed wire. Coils or uncoils about 12 ft. with each revolution — operates up or downhill. Strong construction — tubular steel arms, unbreakable malleable iron prongs and center clamp. Enameled finish.

487 A 9666—Ship. wt. 11 lbs.....**$3.25**

Bright or Galvanized Fence Staples

Low As **5½c** 2 Lb.

(H) Made in U.S.A. Heavy steel wire—sharp, tapering points. For wood or angle steel posts. Ship. wt. per lb., 1 lb. 4 oz.; per 100-lb. keg, 107 lbs. **State size.**

Size in.	Number to Lb. About	Bright Finish P584A5454 Per Lb.	Bright Finish P184A5455 100 Lbs.	Galvanized Finish P584A5456 Per Lb.	Galvanized Finish P184A5457 100 Lbs.
1	96	5½c	$4.55	6c	$5.00
1¼	87	5½c	4.55	6c	5.00
1½	72	5½c	4.55	6c	5.00

(J) **Galvanized Poultry Netting Staples.** Made in U.S.A. ¾-inch size—about 500 staples to the pound.

P584 A 5460—*Mailable.* Ship. wt. 1 lb. 4 oz. Per lb.... **7c**

ROLLER BEARING SHEAVES

As Low As **95c** Ea.

3, 4 and 5-Sheave Combination Stretchers and Hoists

Double duty—use for stretching plain or barbed wire, or as handy hoists with dozens of farm uses! Non-slipping, self-locking—use in any position. Rust-resisting enamel finish. Sheaves mounted on easy-working roller bearings on hardened steel axles. Built-in wire grip on front end has hook for hoisting. Chain for anchoring around post also has wire grip and hook.

P587 A 9675—Heavy Duty Five-Sheave Type (Pictured). Five 2½-in. sheaves give greatest power. Sheaves are steel strapped for extra strength, longer life. 24 feet of ½-in. Manila rope included. Ship. wt. 7 lbs. 8 oz..... **$3.35**

P87 A 9674—Four-Sheave Type. Four 2¼-in. sheaves 16 ft. of ⅜-in. Manila rope included. Ship. wt. 6 lbs **$1.35**

P87 A 9673—Three-Sheave Type. Three 2¼-in. sheaves. 12 ft. of ⅜-in. Manila rope included. Ship. wt. 5 lbs..... **95c**

"P" before the article number (example: P587 A 9675) means item is shipped from Baltimore, Albany or Pittsburgh.

DIGGERS AND AUGERS

$1.49 (K) Hinge Type, Atlas Pattern Digger

Malleable iron frames riveted to heavy, heat-treated and sharpened carbon-steel blades—takes a bite 10 in. deep 6 in. in diameter. Strong Ash handles with square butts bolted into sockets with two bolts. Height overall about 58 in. Wt. 9 lbs. **Shipped from** Baltimore, Albany or Pittsburgh.

P487 A 9624—*Mailable*.....**$1.49**

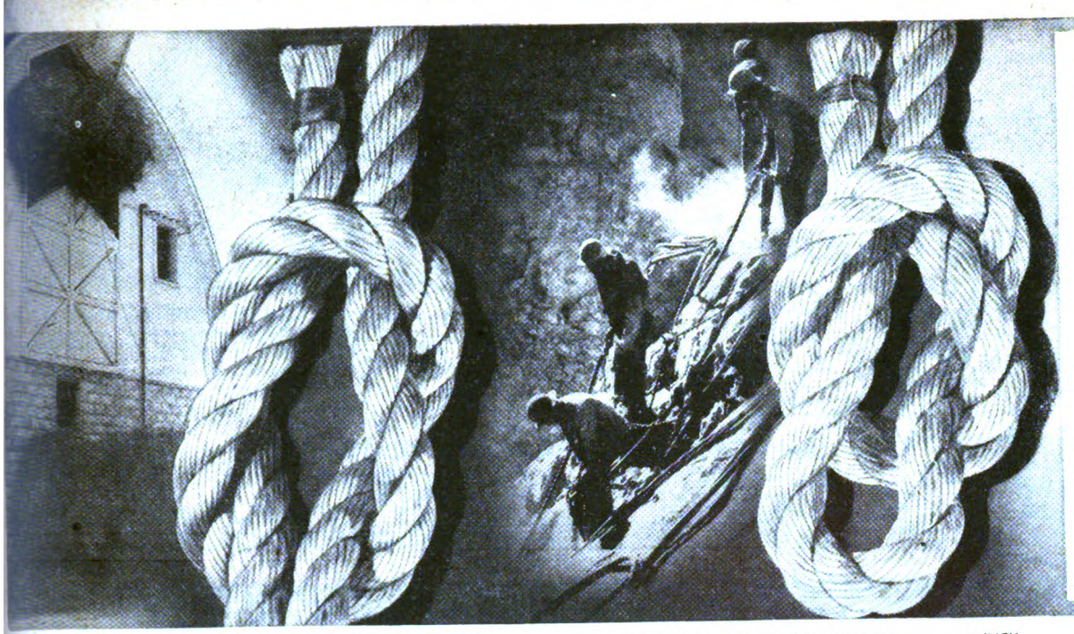
Low As **$1.89** (L) Iwan Pattern Auger

Sharp-cutting crucible steel blades held together at center points by riveted strap—prevents spreading. Completes a 2½-foot hole with 5 fillings. Blades interlock and twist in to earth like a drill. Length about 47 in. but iron pipe handle can be extended for deeper boring by adding ¾-inch pipe and fittings. Strong wood grips. *Mailable.*

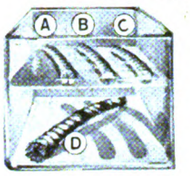
Article No.	Diam.	Ship. Wt.	Each
487 A 9626	4 in.	8 lbs.	$1.89
487 A 9627	6 in.	9 lbs.	1.98
487 A 9628	8 in.	10 lbs.	2.05
487 A 9629	9 in.	11 lbs.	2.15

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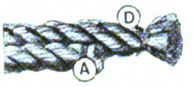
WARDS 100% MANILA ROPE Proved Best by Tests



Prove Rope Quality Yourself



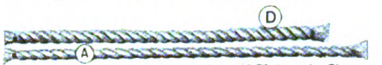
You can duplicate the *Float* test pictured here—in any tub or tank. Compare 24-in. lengths of Wards rope (A) with high-priced national brands (B), (C) and any other rope of about Wards price (D in test at left). The good rope will *float* because it has more water-resistant oils—because it's been properly waterproofed and properly lubricated. The cheap rope sinks—because it soaks up water. After 45-min. in water, remove and check with results below. Because ropes A, B and C checked alike, A and D only are compared below.



No Swelling—Wards Rope (A) stayed within 3% of original size. Cheap rope (D) swelled about 24%!



No Fraying—Wards Rope (A) dried pliable, firm. Cheap rope (D) soaked up water, dried stiff and frayed.



No Shrinking—Wards rope (A) lost 3% length. Cheap rope (D) shrank 13% (13 feet per 100).

SUPERIOR QUALITY ROPE

½-INCH $1.48 100-Ft.

¾-inch About 18 lb. 3c

100% Pure Manila Rope

10% Stronger Than Gov't. Breaking Strains T-R-601a for No. 1 Rope. The quality of Wards Manila Rope starts where most other stores and dealers leave off. This is our lowest priced 100% Pure Manila Rope—but it is the same quality that many others sell as their best grade. It is a "No. 1 rope" by any breaking strain test. It will give you dependable, long service. Wards Superior Quality 3-ply rope is made of the more expensive, lighter-colored fibers, richer in natural life-preserving oils, higher in tensile strength. "Tight Laid"—it gives longest service under fullest loads and hardest weather conditions. The bulk fiber is Oil Sprayed before spinning, with high quality lubricant—adding great resistance to friction and increasing pliability. It is weatherproofed to resist dirt, mildew, rot, mold, sun, water distortion, bacteria, yeasts, etc.

The result is a rope that not only meets but averages 10% stronger than Gov't T-R-601a breaking strains. It gives more satisfactory service, and lasts up to 4 times as long as loose-laid, dark colored rope. Read "Which Grade Rope Should I Buy?" at right. Order from table below—recommended working load is ⅕ of the breaking strain shown. Shipped from Stock in Baltimore, Albany or Pittsburgh, Pa. Send your order to nearest House.

SUPREME QUALITY ROPE

½-INCH $1.75 100-Ft.

¾-in. About 22 lb. 6c

White 100% Pure Manila Rope

Average 20% to 25% Stronger than Gov't. Breaking Strains T-R-601a. The Finest Quality White Manila Rope Made! Actual laboratory tests prove Wards Supreme Quality Manila Rope is 20% to 25% stronger than U. S. Gov't breaking strains—besides meeting or beating all 14 specifications in U. S. Gov't Bulletin T-R-601a. It also exceeds all the demands of the Becker Test for whiteness of fibers. The test that only First Quality Manila Rope can pass. This is the quality demanded by industry for use on hoists, scaffolds, by painters, builders, riggers, movers, truckers; by railroads and ships—where life and property are more important than first cost. Recommended working load is ⅕ of breaking strain.

White Manila is best because White Fibers naturally contain elements that lubricate against wear, resist ageing, give longest life. Yet Wards add lubrication with extra-quality Oil Spraying and special waterproof treatment that resists friction, molds, rot, yeast, bacteria, sun—making it absolutely free from water distortion. Laid into firm, tight, shape-holding rope, it handles easier in any weather—cold, wet or dry. Exceeds Gov't breaking strains, but more important, it gives far longer service under full working loads. Shipped from Stock in Baltimore or Albany.

Which Grade Rope Should I Buy?

WARDS SUPREME QUALITY—White 100% Manila Rope should be your choice if you want the longest service. It averages over 20% better than Gov't Breaking Strains and meets all 14 requirements of U. S. Gov't. Bulletin TR-601a, for Top Quality Rope. These 14 requirements specify: the grades of fiber used, based on lengths, color and cleaning—the quantity and quality of lubricant and waterproof treatment used—the type of lay (or twist)—and tensile strength, etc. Only White Manila Fibers such as used in Wards Supreme Quality rope can meet all the requirements—no rope that is not White can equal its strength, service, resistance to friction or weather—wet or dry.

WARDS SUPERIOR QUALITY—100% pure Manila Rope. Exceeds Gov't Breaking strains by 10%. Made of selected quality, light colored fibers. It is second in service only to Wards White Supreme Quality. An extra grade lubricant is used, so that its life is lengthened by better-than-usual resistance to friction and weather.

About Breaking Strains. Breaking strain is only One of the 14 requirements of TR-601a—it is not a true indication of rope quality because often a low-grade, loose-laid, dark color rope will stand higher breaking strain tests when new than highest grade rope that will last four times as long.

WARDS SUPERIOR QUALITY MANILA ROPE						SPECIFICATIONS		WARDS SUPREME QUALITY MANILA ROPE					
DIAM. SIZE	Article Number	Per Foot	100 Feet	200 Feet	Full Coil	U.S. Government Breaking Strain	Ship. Wt. 100 Ft.	Approx. Ft. Per Coil	DIAM. SIZE	Article Number	Per Foot	100 Feet	200 Feet	Full Coil
3/16-in.	P687 A 6229	4/10c	36c	69c	$10.35	450 lbs.	2 lbs.	3000						
¼-in.	P687 A 6230	½c	46c	89c	12.10	600 lbs.	3 lbs.	2750	¼-in.	687 A 6231	5/10c	53c	$1.00	$13.75
⅜-in.	P687 A 6232	1c	90c	$1.75	13.65	1,350 lbs.	5 lbs.	1620	⅜-in.	687 A 6233	11/10c	$1.05	1.99	15.20
½-in.	P687 A 6236	1 5/10c	$1.48	2.90	17.00	2,650 lbs.	8 lbs.	1200	½-in.	687 A 6235	1 8/10c	1.75	3.35	19.80
⅝-in.	P687 A 6216	2 5/10c	2.59	5.03	29.60	4,200 lbs.	14 lbs.	1200	⅝-in.	687 A 6234	3 2/10c	3.05	5.85	34.35
¾-in.	P687 A 6240	3½c	3.15	6.15	35.98	5,400 lbs.	17 lbs.	1200	¾-in.	687 A 6237	3 9/10c	3.73	7.18	41.95
⅞-in.	P687 A 6244	4 7/10c	4.25	8.30	48.50	7,700 lbs.	23 lbs.	1200	⅞-in.	687 A 6238	5¼c	4.98	9.65	56.65
1-in.	P687 A 6248	5 5/10c	5.10	9.98	58.30	9,000 lbs.	28 lbs.	1200	1-in.	687 A 6239	6 4/10c	5.98	11.45	67.98
1⅛-in.	P687 A 6252	7½c	6.85	13.30	77.75	11,500 lbs.	36 lbs.	1200	1⅛-in.	687 A 6241	8 6/10c	8.10	15.45	90.70
1¼-in.	P687 A 6256	8 9/10c	7.79	15.20	88.50	13,500 lbs.	42 lbs.	1200	1¼-in.	687 A 6243	9 9/10c	9.20	17.50	103.40
1½-in.	P687 A 6226	12 5/10c	11.40	22.15	129.50	18,500 lbs.	60 lbs.	1200	1½-in.	687 A 6245	14¼c	13.45	25.75	151.20



Big Savings on Full Coils—Truckload, Carload 20c lb. ¾-in. Base Price

Because Wards Supreme Quality Manila Rope is Top Quality, it is bought by contractors, railroads, factories, large industrial users. No matter what your needs, we can serve you, too—and save you money. If your needs are just a coil or two, order at the low prices in table at left. If you want truckload or carload lots—if you want special lay, treatment, plies—our arrangements with leading manufacturers make it possible for Wards to supply you. Write us for prices on big orders or special ropes.

Market conditions make rope and twine prices subject to change. If necessary to raise prices we notify before shipment. If market declines you'll get the saving in price.

MANILA YACHT ROPE



Silky White—Super Fine

1¼c ¼-INCH Ft.

Exceeds all Gov't Rope Specifications. Wards finest Rope! Brilliant white with sheen of silk—10% to 15% stronger than any other grade! Every fiber is carefully hand-picked—only a small fraction of all Manila fibers are long enough, strong enough, and white enough to meet the standards of this grade! Made for yachts and ships, this rope is also best for use on farms, factories, scaffolds, derricks—any place where utmost safety and longest life is most important. It's free-running, pliable, and non-kink. It loops into the smallest knots and runs through the smallest pulleys.

Extra high quality lubrication—prevents abrasion, rot, sun, mildew, bacteria, water distortion—anything that weakens rope! Wards Yacht Rope lasts longer and gives safer, better service than any other grade. Sold only in 4-strand. **Shipped from Stock.**

WARDS YACHT ROPE			
Diam. Size	Article Number	Price per ft.	Approx. Ship. Wt. 100 ft.
¼-in.	687 A 6190	1¼c	2 lbs. 8 oz.
⅜-in.	687 A 6191	2½c	5 lbs.
½-in.	687 A 6192	4c	8 lbs.
⅝-in.	687 A 6193	7c	14 lbs.
¾-in.	687 A 6194	9c	17 lbs.

WARDS "SUPREME QUALITY" FISH ROPES



Wards Supreme Quality Lobster Pot Warp

Low As $3.98 100 Fathoms

Pure White Manila, oil sprayed in the fiber. One fathom equals 6 ft. **Shipped from** Baltimore or Albany. Shipping weights ¼ in., 16 lbs.; 3/16 in., 20 lbs.

Copper Oleated Pot Warp (Green)

Article Number	Size	Diam. In.	Per Coil 100 Fath.	Lot of 6-Ea.
487 A 6250	6-thrd	¼	$4.29	$3.98
487 A 6251	9-thrd	5/16	5.30	4.98

Steam Tarred Pot Warp (Black)

487 A 6253	6-thrd	¼	$4.29	$3.98
487 A 6254	9-thrd	5/16	5.30	4.98

Deep Sea Marline Or Trawl Twist



Pure White Manila—long strong fibers oil sprayed and woven into a taut 2-ply cord. Has unusual strength for all underwater jobs. **Shipped from** Baltimore or Albany. Wts.: 5 lbs. 51 lbs.

Plain White Marline

Article Number	Av. Ft. Per Lb.	5 lb. Ball	50 lb. Bale
487 A 6290	360	$1.98	$18.50
487 A 6294	432	2.25	19.95

Copper Oleated Marline

487 A 6294	360	$1.98	$18.50
487 A 6296	432	2.25	19.95

- **Soft laid from carefully selected fibers of long, strong 100% Pure Manila.**
- **Every fiber heavily and permanently lubricated for flexibility, easy handling, long life.**
- **Waterproofed—Rot-proofed—Mildew-proofed.**

The favorite rope of fishermen from the Grand Banks to the Florida Keys. For grill, pound, trap and seine fishing nets. 1 fathom equals 6 feet. **Shipped from Stock** in Baltimore or Albany. Buy all you need. Build your order to $10—use Wards Time Payment Plan. See Inside Back Cover for Terms.

Waterproofed Manila Fisherman's Rope

Article Number	Size Thread	Size Diam.	Ship. Wt. Per Coil	Per Coil 100 Fath.	6 Coils or More Per Coil
487 A 6200	6 Fine	3/16-in.	9 lbs.	$2.52	$2.35
487 A 6201	6	¼-in.	12 lbs.	3.24	2.98
487 A 6202	9	5/16-in.	18 lbs.	4.68	4.43
487 A 6203	12	⅜-in.	25 lbs.	6.37	6.07
487 A 6204	15	7/16-in.	32 lbs.	7.56	7.20
487 A 6205	18	1/2-in.	38 lbs.	8.98	8.35
487 A 6206	21	½-in.	45 lbs.	10.80	10.12
487 A 6207	27	9/16-in.	63 lbs.	14.98	14.17

Steam Tarred Manila Fisherman's Rope

487 A 6208	6 Fine	3/16-in.	10 lbs.	$2.80	$2.61
487 A 6209	6	¼-in.	13 lbs.	3.50	3.27
487 A 6210	9	5/16-in.	19 lbs.	4.99	4.79
487 A 6211	12	⅜-in.	26 lbs.	6.75	6.32
487 A 6212	15	7/16-in.	33 lbs.	7.90	7.42
487 A 6213	18	1/2-in.	40 lbs.	9.49	8.98
487 A 6214	21	½-in.	47 lbs.	11.25	10.47
487 A 6215	27	9/16-in.	65 lbs.	15.60	14.62



Wards Supreme Quality Cotton Rope

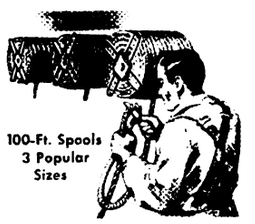
33c 100 ft. 3/16-INCH

Fine grade White Cotton. Smooth, tightly twisted long-staple fibers. 3-strand. For awnings, halter ropes, etc.

Article Number	Breaking Strength	Size	Wt. 100 Ft.	Per Ft.	Per 100 Ft.
687A6305	300 lbs.	3/16-in.	1¼ lb.	3/10c	33c
687A6306	500 lbs.	¼-in.	2 lbs.	4/10c	50c
687A6307	700 lbs.	⅜-in.	3 lbs.	5/10c	75c
687A6308	1000 lbs.	5/16-in.	4 lbs.	11½c	$1.23
687A6309	1200 lbs.	½-in.	8 lbs.	2c	1.85

Don't Risk Your Life and Your Property With Old Rope! Order all you need on Time Payments. See Back Cover.





100-Ft. Spools 3 Popular Sizes

Superior and Supreme Quality Rope on Handy Spools

50c 100 Feet ¼-Inch

The Right Rope—in the Right Condition—at the Right Time! The handiest way you ever saw to keep rope always on hand, and in any size you want it. No greasy, wet rope, no tangled-up snarls that take time to unravel. Your rope is always off the floor—it's on the wall, clean and ready for use. You can cut off the lengths as you need them—no more patching together odd pieces and sizes. Fasten the sturdy 100 ft. spools to convenient place in the barn, garage, basement, factory or dock. In Superior Quality (100% Pure Manila) or Supreme Quality (100% Pure White Manila)—see above for descriptions.

Rope Diam.	Shipping Weight	Superior Quality Article No.	Superior Quality 100-ft.	Supreme Quality Article No.	Supreme Quality 100-ft.
¼-in.	2½ lbs.	87 A 6316	50c	87 A 6311	60c
⅜-in.	5 lbs.	87 A 6318	$1.00	87 A 6313	$1.10
½-in.	8 lbs.	87 A 6319	1.60	87 A 6314	1.90

487 A 6320—Superior Quality Rope. Set of three 100-ft. Reels (¼-in., ⅜-in., ½-in.) Ship. wt/16 lbs. $2.98

487 A 6315—Supreme Quality Rope. Set of three 100-ft. Reels (¼-in., ⅜-in., ½-in.). Ship. wt. 16 lbs. $3.39



BINDER TWINE As Low As $4.25 50 Lb. Bale

Supreme Quality Drilling Cable

Three 3-strand Manila ropes. Lubricated to resist moisture, acids, etc. Write for prices on other sizes. **Shipped immediately from Factory Stock** in Cleveland. Read Wards guarantee on Back Pages of Catalog.

Article Number	Diam. in.	Ship. wt. lb. per ft.	Price Per Ft.
287 A 6300	1¾	1.3	33c
287 A 6301	1⅞	1.5	38c
287 A 6302	2	1.7	42c
287 A 6303	2¼	2.2	56c
287 A 6304	2½	2.4	61c

Lattice-Wound—Runs Free!

Balls won't collapse—use them to the last foot. Long tough Sisal fibers are treated to repel insects. Av. tensile strength 90 lbs. In bag, bound with ½-in. rope.

487 A 4—50-lb. bale of six 8-lb. balls. Wt. 50 lbs. **$4.25**
One ball. Wt. 8 lbs. 4 oz. 73c

487 A 3—50-lb. bale of ten 5-lb. balls. Wt. 50 lbs. **$4.25**
One ball. Wt. 5 lbs. 3 oz. 45c

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WRITE YOUR OWN WEEKLY PAY CHECK

With Battery Brooder Profits!





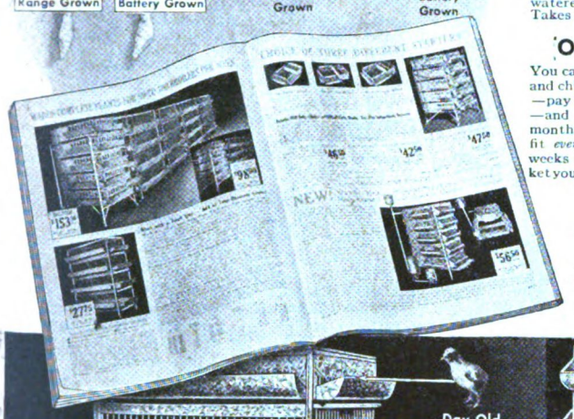
Raise Battery Broilers in Your Spare Time!

You Don't Need Much Space—An old garage, shed, barn, or basement is large enough to raise them profitably!

You Don't Need Much Equipment—All you need is Baby Chicks, a Ward Battery Brooder, feed, and the special instruction book you receive with your brooder.

You Don't Have to be an Expert—The important job is to keep the chicks well fed and watered . . . the brooders clean and sanitary. Takes only an hour or so a day.

Your Earnings Start in Only 9 Weeks—With a Ward Battery Brooder Plant you get a return on your investment as soon as you sell your first broilers—only 9 wks. after you start! Start your plant on a small scale . . . develop it into a full-time business as sales increase. You'll find a ready market for these palatable broilers among restaurants, hotels, and meat markets. And because they grow faster, more uniformly than range-grown birds fed the same ration, you get them to market up to 2 wks. sooner—hit peak broiler prices for extra profits.



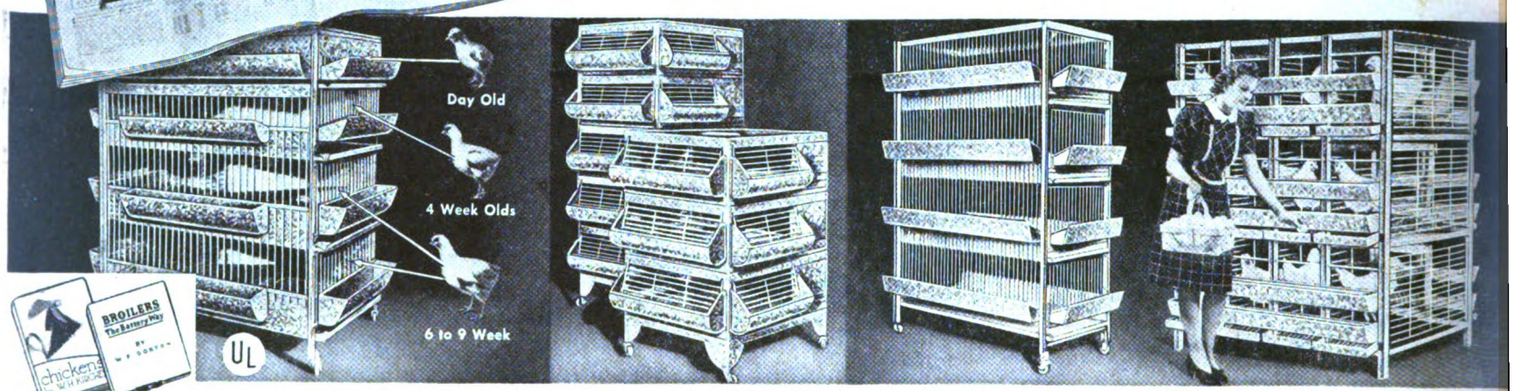
Only $5 a Month Returns You $10 a Month Clear Profit!

You can buy a Ward Brooder and chicks on Time Payments—pay for them by the month—and get back TWICE your monthly payment in clear profit *every month* after only 9 weeks (when you start to market your broilers). Here's proof.

Monthly Payment on Wards 3-in-1 Brooder	$5.00
Cost of 100 Chicks (25 each week)	10.00
• 1 Month's Feed, 200 chicks (3 lbs. ea., 3c a lb.)	18.00
Fuel Expense (Keeping brooder house warm)	1.00
Electricity (35 K.W.H. per month, 4c per K.W.H.)	1.40
Interest and Mortality	2.60
Total Cost Per Month	$38.00
Average Selling Price, 100 2-lb. Broilers	48.00
Your Profit	10.00

FREE...16-PAGE BATTERY BROODER BOOK

Whether you want a Battery Brooder unit for $20 or $200 . . . Wards have it! We have complete plants to handle up to 500 broilers per week . . . newest, most efficient coal and oil heated units . . . latest type hot water plants . . . all of them completely described in Wards FREE Battery Brooder Book. It tells you all about Wards Add-a-Unit system . . . shows you how you can expand your plant as your business increases. It's packed full of helpful hints on brooding, operating, and marketing . . . gives you more information about units listed below. WRITE!





Enclosed Switch Turns on Lights Instantly at Time You Set Clock

Clock Controlled Light Swi

$2.79 Ea.

- **Gives your Layers More T to Feed and Drink—Incre Egg Output.**
- **Pullets Mature Earlier.**

It's specially designed to turn lights on in chicken house at any hour you set it—turn them off. No need to "get up with chickens"! You can enjoy those extra hour sleep while your chickens are bringing in e profits. Electric switch built into 30-h spring movement clock. Attractive ro case . . . easy-read face. Runs on any curr up to 110 volts. Capacity: 1000-watt 500-watt, D.C. Use it also for show win to turn on electric signs, for lights in ap ment houses. Complete operating instructi included with switch.

87 A 3682—Ship. wt. 2 lbs. . . . . $2.

VALUABLE BOOKS FOR POULTRYMEN

"Broilers, the Battery Way" *by W. F. Gorton.* Tells how to handle and feed battery broilers . . . how to select the right breeds . . how to kill and market finished birds. 86 pages crammed with money-making ideas. Paper binding. 5½ by 7½ in. *Postpaid.*
57 A 3328—Each . . . 59c

"Chickens" *by W. H. Kircher.* A valuable guide to profitable flock management. Information on brooding, incubation, feeding, housing, disease treatment, etc. 136 pages. Paper binding. 5½ by 7½ in. *Postpaid.*
57 A 3326—Each . . . 45c

Wards 3-in-1 Indoor Broiler Farm

$46.95 Cash
$5 a Month
See Back Cover

Starts . . . grows . . . finishes 25 broilers per week—yet takes only 8 by 10 feet of floor space!

Has 10 sections in its 4 decks. In 9 weeks you have 9 lots of 25 chicks, each 1 week apart. At end of the 9th week you sell 25 finished birds, and battery looks like this: Top deck has 4 sections—25, day-olds; 25, 1-week olds; 25, 2-week olds; 25, 3-week olds. Second deck has 2 sections—25, 4-week olds; 25, 5-week olds. The third deck has two sections—hold 25 each, 6 and 7-week olds . . . bottom deck has 25, 8-week olds which you hold for 9th week.

Top deck sections each have 280 sq. in. floor space, 8¼-inch head room. Others have a 24 by 30-in. floor. Second deck has 9¾-in. head room—third and fourth decks have 12-in. head room. Galv. steel, 1 by 1 by ⅛-in. angle frame. Removable dropping pans, feed and water troughs, curtains. On casters. 57½ in. high. 59 in. long. Ship. wts. 258, 309 lbs. **Shipped from** Factory in Quincy, Ill., in about 4 additional days.

287 A 3293—Electric-Heated Model. Underwriters' Approved. Top deck has 120-watt bar element and 60-watt bulb—both automatically controlled. 2nd deck has heating light—3rd and 4th decks have socket for light when needed. For 110-120 volt, A.C. only. Cord and plug. Uses about 35 K.W.H. mo. 40½ in. wide. . . **$46.95**
287 A 3294—Oil Heated. One Ward Giant Blue Flame Kerosene burner heats all decks. Flue branches to each deck—top deck gets most heat. No fumes. Not automatic. 46 in. wide **$51.75**

Wards 3 and 5-Deck Starters

$22.45 Cash
$3.50 Mo., See Back Cover

Broods 40 chicks a drawer up to 4 weeks. Each drawer is 24 by 30 by 9½ in. high . . . has 1 water and 2 feed troughs. Wire guard adjustable as birds grow. Galv. steel, angle frame. Removable floors, dropping pans. Muslin curtain. For 50° to 70° room temperature. Overall: 33 by 45 in. 3-deck is 44 in. high: 5-deck is 66 in. high. **Shipped from** Factory in Quincy, Ill. in about 4 additional days.

Electric Heated. Underwriters' Approved. 100-watt element in each drawer. Top drawer has thermostat. Pilot light socket (bulb not included). 110-volt A.C. 3 deck uses 70 K.W. H. per month; 5-deck, 110 K.W.H. per month.
287 A 3298—3-Deck, Wt. 110 lbs. . . **$22.45**
287 A 3299—5-Deck, Wt. 161 lbs. . . . **32.95**

Oil Heated. One Giant Blue Flame Kerosene Burner heats all decks. Flue branches to each drawer . . . no gas or fumes. Not automatic. Ship. wts. 131 and 189 lbs.
287 A 3296—3 Deck Oil Heated. . . . **$28.95**
287 A 3297—5-Deck Oil Heated. . . . **39.95**

Finishing Battery

$29.95 Cash
$4 a Month
See Back Cover

For developing broilers to eating size in 9 weeks or less. Makes them more palatable . . . heavier meat producers. Holds 120 two-pound broilers. Each of the four decks is an independent unit, complete with 1 feed and water trough, 2 removable dropping pans, and removable ⅛-inch welded steel mesh floor. Size of each section is 24 by 48 by 14 in. high. Battery is galvanized steel, has well-braced angle iron frame.

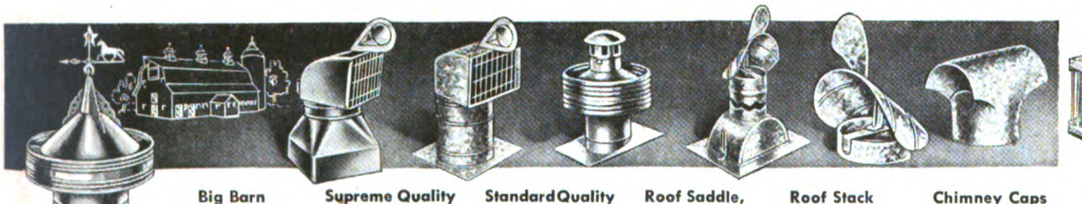
3/16-in. wire side grids are adjustable for 1½ to 2-in. spacing . . . give ample room for eating, drinking. On casters. Overall ht. 70 in.; length 53 in.; width 28 in. **Shipped from** Factory in Quincy, Ill. in about 4 additional days. Shipping weight 250 lbs.
287 A 3963—Each **$29.95**

Hen Laying Batter

$27.75 Cash
$4 a Month
See Back Cover

Holds 24 he
Saves on sp
. . . saves on
costs. Eggs
into tray fo
daily record—
you feed only the "profit hens".
Enables you to cull out poo
layers . . . cut disease. Com
partments are 12 by 17½ by 1
in.—ample space for each hen

Design of Wards Laying Ba
tery makes feeding, waterin
and egg gathering an easy job
28-ga. galv. feed and water pans
removable dropping pans
welded steel mesh floors. Fram
is made of heavy angle irons
18-gauge partition wires. Over
all: 64 in. high, 44 in. wide, 5
in. long. **Shipped from** Fac
tory in Quincy, Ill. in about
extra days. Ship. wt. 210 lbs
287 A 4009—Each . . . $27.75



Big Barn Ventilators

$27.50 Cash
Terms, Back Cover

Fits any roof. Made of galvanized 26-ga. copper steel. With horse or cow ornament. **State choice. Shipped from** Factory near Elmira, N.Y. in about 4 extra days.
287A3967—Flue diam. 24 in.; ht. 75 in. Base 34 in. square. Wt. 96 lbs. . . . **$27.50**
287A3972—Flue diam. 27 in.; ht. 83 in. Base 39 in. square. Wt. 115 lbs. . . **$31.45**
287A3973—Flue diam. 30 in.; ht. 87 in. Base 45 in. square. Wt. 150 lbs. . . **$32.75**

Supreme Quality Roof Cupola

Galvanized Armco iron, painted aluminum. Counterbalanced head revolves with wind. No back drafts. Base is 16 by 16 inches—fits any roof. Birdproof screen. Ht. 3 ft.; flue diam. 12 in. Ship. wt. 23 lbs.
487 A 3965—*Mailable* **$7.45**

Standard Quality Roof Cupola

Galvanized steel. Revolving head stops back drafts. Birdproof screen. Wingnuts included to make it adjustable to roof pitch. Base 18 inches square.; overall ht. 34 in.; flue diam. 12 in. Ship. wt. 22 lbs.
487 A 3985—*Mailable* **$6.25**

Roof Saddle, Ventilator

Stops downdrafts. Adjustable to roof pitch. Fits 5-inch stovepipe. Galvanized steel. Throat diam. 8-in. Base 14½ in. square. Shipping weight 12 pounds.
487 A 3676—*Mailable* **$2.75**

Roof Stack

Revolving cap turns easily with lightest breeze. Prevents down drafts. Keeps out rain and snow. Galvanized steel. Adjustable for any roof pitch. 14-in. pipe furnished. Fits 5-inch stovepipe. Ship. wt. 7 lbs.
487 A 3685—*Mailable* **$1.69**

Chimney Caps

Keep out rain and snow. Prevent down drafts and heat waste. Heavy 26-gauge galvanized steel. Fit 5-in. pipe.

Stationary Cap
587 A 3991—Ship. weight 2 lbs. *Mailable* **25c**

Revolving Cap
587 A 3992—Ship. wt. 2 lbs. 4 oz. *Mailable* **46c**



Ⓐ Genuine Du Pont Cel-O-Glass Mounted in Steel Window Frames

Admit Ultra-Violet rays with Cel-O-Glass windows—healthful for poultry, plants! Galv. steel frame—locks open or closed.
487 A 3698—Frame for 20 by 24-inch opening. With 16 by 20-inch Cel-O-Glass Pane. Ship. wt. 13 lbs. **$2.98**
487 A 3699—Frame for 24 by 28-inch opening. With 20 by 24-inch Cel-O-Glass pane. Ship. wt. 20 lbs. **$3.75**
487 A 3958—Frame only, to fit 20 by 24 inch opening. Will hold four 8 by 10-in. glass panes. Ship. wt. 11 lbs. . . . **$2.35**
487 A 3959—Frame only, to fit 24 by 28-in. opening. Will hold four 10 by 12-in. glass panes. Ship. wt. 13 lbs. **$2.95**

Ⓑ Ventilating Window Frame

For wood sash. 26-ga. galv. steel. No drafts. Tilts back for indirect ventilation. *Mailable.*
487 A 3638—For Wood sash, 20 by 24 in. Ship. wt. ea. 8 lbs. Each . . . **$1.85**
6 for **9.75**
487 A 3639—For wood sash, 24 by 29 in. Wt. ea., 10 lbs. Each **$1.98**
6 for **10.75**

Ⓒ Roof Window

26-ga. galv. steel. No-draft. Lever holds window open or closed. ⅜-in. mesh hardware cloth protects glass. Takes two 10 by 28-in. glass panes (not included). Opening 20 by 28 in. Unsuitable for Flat Roof. Flashing on 4 sides. *Mailable.*
487 A 3969—Wt. 20 lbs. . **$4.95**

Ⓓ Automatic Air Intake

Balanced damper admits fresh air, closes on back draft. Galv. steel, aluminum shutter. 8 x 12 x 22 in. Fits between rafters 24 in. apart. Ship. wt. 10 lbs.
487A3966—*Mailable* **$3.65**

Self-Locking Galv. Pipe
28-ga. steel. 24 in. long.
Ⓔ **487 A 3981**—4-in. Wt. 2 lbs. 8 oz. . . **25c**
487 A 3982—5-in. diam. Ship. wt. 2 lbs. 12 oz. . **28c**
487 A 3983—6-in. diam. Ship. wt. 3 lbs. **34c**

Ⓕ Draft Control

For coal, fuel oil stoves. Automatic action—no back drafts. Made of black steel 10 in. long. Ship. wts. 2 lbs. 4 oz., 2 lbs. 8 oz.
587A3993—4-in. diam. **62c**
587A3994—5-in. diam. **72c**

Ⓖ Adjustable Elbows
28-gauge galv. steel.
587A3928—4-in. diam. Ship. wt. 1 lb. **27c**
587A3929—5-in. diam. Ship. wt. 1 lb. 8 oz. . . **31c**
587A3930—6-in. diam. Ship. wt. 1 lb. 12 oz. . . **33c**

Proper Ventilation in Barns, Chicken Houses, Hog Houses, etc., is Essential to Health! Buy the Ventilating Equipment You Need for a Few Dollars a Month at Wards. See Back Cover.



$1.69 Collapsible Shipping Coop

Lightweight but strong—built to withstand rough handling on many express trips! Round hardwood uprights and cross pieces. Wood bottom and steel corner rods. Self-fastening spring door on top is easy to open, holds tight when closed. Spindles firmly fastened into wood frame. Size of coop overall: 36 in. long, 24 in. wide, 12 in. high. Complies with express shipping regulations. *Mailable.*
487 A 3886—Wt. 19 lbs. . . **$1.69**

Steel Wire Egg Basket

65c

Hastens cooling of eggs. Welded, heavy ga. galvanized steel wire. Feet keep basket off ground—prevent soiling eggs. Bottom wires spaced for ventilation. For diam., 14 in.; bottom diam., 10 in. Ht. 9 in. Holds 15 dozen eggs.
587 A 3865—Ship. wt. 2 lbs. 12 oz. *Mailable* **65c**

Collapsible Wooden Egg Shipping Crates

55c 6-Dozen

For parcel post or express shipping. Strawboard flats, cardboard fillers.
587 A 3876—6-Doz. Size (13x12x9 in.) Ship. wt. 4 lbs. **55c**
587 A 3870—12-Doz. Size (13x12x13 in.) Ship. wt. 8 lbs. . . **58c**
587 A 3878—15-Doz. Size (13x12x15 in.) Ship. wt. 8 lbs. . . **75c**

Extra Flats and Fillers
587 A 3873—25 Flats. Ship. wt. 2 lbs. 12 oz. **28c**
250 Flats. Wt. 22 lbs. **$2.50**
587 A 3874—20 Fillers. Shipping weight 5 lbs. **34c**
100 Fillers. Wt. 25 lbs. **$1.55**

Paraffined Broiler Boxes

Made of heavy newsboard, bleached white and paraffined. Attractively labeled on 3 sides in green ink. Size 3½ by 4 by 8 in.—holds a 2 to 3 lb. dressed broiler. Shipped flat—easily assembled. Mailed from Factory near Quincy, Ill. Wt. per 100, 16 lbs. *Mailable.*
M287 **A 3250**—100 for . . . **$1.95**
500 for **8.95**

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WARDS DAY-OLD CHICKS

Direct from U. S. Approved Hatcheries

- All from Supervised 2-Star Select Matings, Constantly Bred Up with Males from Wards 3-Star Matings.
- All from U. S. Approved Flocks that have been Culled, Leg-Banded, and Blood-Tested for B.W.D.
- All Hatched Under Supervision of National Poultry Improvement Plan in U. S. Approved Hatcheries.
- All Shipped Under Wards Chick Life Warranty: Gives Free Replacement Up to 90% During First 14 Days.

As Low As **$9.50** Lots of 100



The seal of the National Poultry Improvement Plan, on every carton of Wards Day-Old Chicks you receive, is your guarantee that they have been hatched under highest standards of hatchery supervision. Every chick you receive is guaranteed healthy and vigorous . . . . true to name and breed. *Postpaid.*

Wards Chicks Available Every Week in the Year. For winter broilers order Plymouth Rocks, R. I. Reds, Heavy Mixed, or Hybrids. For capons, heavy broilers or roasters: Plymouth Rocks. For egg production: White Leghorns, Plymouth Rocks, R. I. Reds or Orpingtons. Shipped in ventilated cartons.

NOTE EXTRA SAVINGS ON LOTS OF 300 AND 500 CHICKS

2-Star Matings AS HATCHED	Article Number	QUANTITIES—Price Includes Postage 25	50	100	300	500
English White Leghorns	M287 A 4126	$3.00	$5.50	$9.50	$28.00	$47.00
Barred Plymouth Rocks	M287 A 4128	3.00	5.50	9.90	29.50	49.00
White Plymouth Rocks	M287 A 4129	3.00	5.50	9.90	29.50	49.00
S. C. R. I. Reds	M287 A 4132	3.00	5.50	9.90	29.50	49.00
Buff Orpingtons	M287 A 4130	3.00	5.50	9.90	29.50	49.00
New Hampshire Reds	M287 A 4138	3.00	5.50	9.90	29.50	49.00
Heavy Mixed Breeds	M287 A 4137	3.00	5.00	9.00	27.00	45.00

Wards 3-Star Day-Old Hybrids

Red-Rock Hybrids are from matings of R. I. Red Males and Barred Rock Hens. Grow into rapid feathering heavy broilers, fine layers. Barred-Cross hybrids are Barred Rock Males crossed with R. I. Red Hens. Chicks barred—grow into fine broilers.

Quantity	M287A4118 Red Rocks	M287A4177 Barred Cross
25	$3.00	$3.00
50	5.50	5.50
100	9.90	9.90
300	29.50	29.50
500	49.00	49.00

ight Control

$8.25

RunsThirteen40-Watt Light Bulbs. ilt for low price—t dependable. rns lights on and as set—dims 20 in. before turning em off. Self start- clock, Mercury itch. 110 volt, 60- c. A.C.—5 amp., 0-watt cap. 7¼ x ⅛x1⅞-in. steel case. 7 A 3862—Wt. 1 . 13 oz. $8.25

Best Electric Clock Light Control

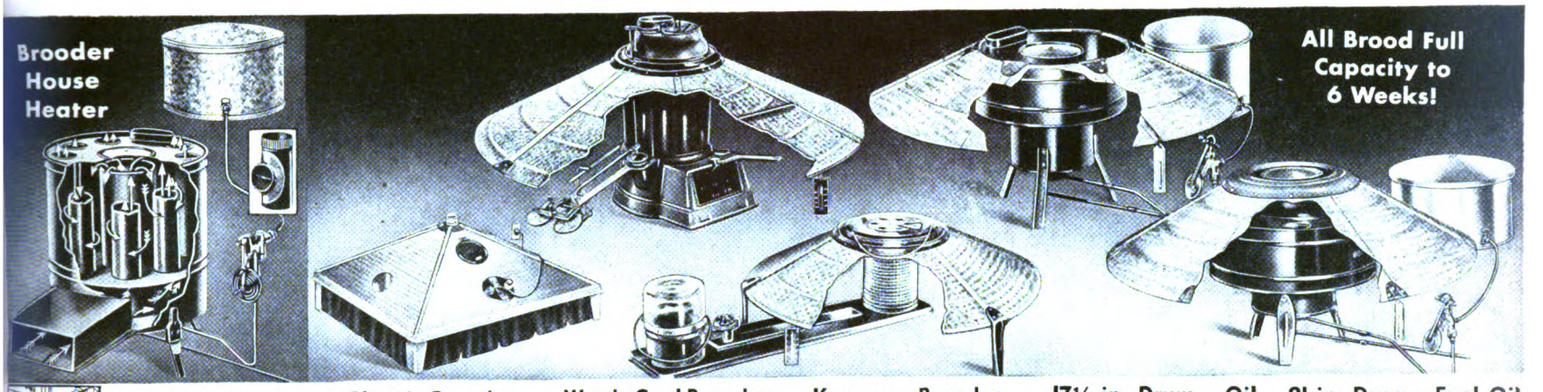
$9.95 Cash

- Approved by Underwriters.
- Runs Thirty-five 40-Watt Bulbs.

Watch-like precision workmanship—every part accurately finished, polished and fitted. Built by one of the largest manufacturers of industrial timing switches. Widely used to regulate lights in electric signs, store windows, and apartment buildings. Helps increase egg output 10 to 30% by lengthening chickens' working day 2 to 6 hrs. Same quality sells for more than $12 under a nationally famous name.

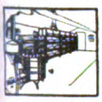
Big, easy-set, easy-to-read dial turns lights on and off at any hour of night and morning at which you set finger-tip buttons. Fine quality Mercury Switch dims lights 15 minutes before turning them off.

Self starting elec. clock. 115 volt, 60-cyc. A.C.—15 amp., 1500-watt cap. 8¼x5¼x4-in. steel case. **87 A 3944**—Wt. 6 lbs. With Instructions . . . **$9.95**





Brooder House



Laying House

Oil Burning

$2.50 a Month **$16.95** Cash See Back Cover

Heats . . . circulates . . . ventilates. Draws in fresh air from outside, heats it and sends it to every corner of the room. 24-gauge Blued Steel Drum is 21 in. in diam. —heats about 3000 cu. ft. of space.

Eight Blued Steel Hot Blast tubes work just like hot air registers. Sight feed oil flow regulator is automatic thermostat controlled—can be set for any room temperature. Burns kerosene or 38–40 distillate. Automatic draft adjuster, air intake box, 3 joints intake pipe, galv. 8-gal. fuel tank. Takes 5-in. pipe (not included). **Shipped from Factory** in Quincy, Ill. in 4 days. *Not Available.*

287 A 3998—Ship. wt. 85 lbs. $16.95

Electric Brooder

$2.50 a Month **$14.95** Cash See Back Cover

Meet R.E.A. Standards—Underwriter Approved! Preheating air space cuts fuel cost 25 to 33⅓%. Double insulated. Thermometer, controls on 1 panel. Nichrome element, magnetic switch. 4-in. window. Galv. canopy has adjustable legs. 110–120 volt A.C. 6-ft. cord, plug. **Shipped from Stock.**

187 A 4041—500-Chick. 1000-watt element. 60x60x 23¾ in. Wt. 110 lbs. . $21.25

187 A 4049—300-Chick. 800-watt element. 45x46x19¾ in. high. Wt. 75 lbs. . . $16.45

187 A 4048—200-Chick. 600-watt element. 38x38x17¾ in. high. Wt. 60 lbs. . .$14.95

487 A 4060—6-Blade Fan for above. Wt. 3 lbs. . .$4.95

Wards Coal Brooder

$2 a Month **$13.45** Cash See Back Cover

Burns 10 to 12 hours on one filling. Thermostat controlled. 1-piece cast stove, rocker-type ball bearing grates, radiating fins. By-pass fire control (check and draft in 1 damper) saves coal. For 5-in. pipe (not included). Galv. canopy, thermometer. **Shipped from** Baltimore, Albany or Pittsburgh. Wts. 87, 92, and 114 lbs.

P187 A 3563—290-Chick Cap. 46-in. canopy; ht. 24½ in. Holds 40 lbs. coal.$13.45

P187 A 3564—420-Chick Cap. 56-in. canopy; ht. 24½ in. Holds 55 lbs. coal.$16.75

P187 A 3565—575-Chick Cap. 66-in. canopy; ht. 28½ in. Holds 75 lbs. coal.**$18.75**

Kerosene Brooder

200 Chick **$8.75** 36-in. Canopy

Miner's Lamp Gauze Burner Screen radiates extra heat. 5-in. oil well burner has asbestos lighting ring. Uses as little as 1 gal. kerosene every 24 hrs.! Heats uniformly—no cold spots. Thermostat controlled valve. Galvanized ribbed canopy. Base 39½ in. long, 9 in. wide. 18-ga. steel legs. Oil filter, 1-gal. glass fuel tank. Accurate thermometer. **Shipped from Stock** in Baltimore, Albany or Pittsburgh. Ship. wts. 27, 33 and 40 lbs. *Available.*

P387 A 3557—200-Chick Cap. 36-in. canopy. $8.75

P387 A 3558—300-Chick Cap. 46-in. canopy. $9.75

P387 A 3559—400-Chick Cap. 56-in. canopy. $10.75

17½-in. Drum—Oil

260-Chick **$9.45** 32-in. Canopy

Overhanging heat chamber adds radiation area. Blued Steel Drum, galv. steel canopy. Wafer thermostat control. Finger-tip cleaning rod. Burns 1 to 5 gals. fuel per 24 hrs. (kerosene or 38–40 distillate). Has 4-gal. fuel tank, copper tube fuel line, automatic draft adjuster, accurate thermometer. 20½ in. high. Takes 5-in. pipe (pipe not included). **Shipped from** Baltimore, Albany or Pittsburgh. Ship. wts. 32, 36, 44 lbs. *Available.*

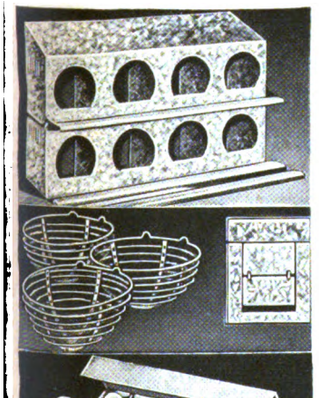
Article Number	6-Week Cap.	Canopy Diam.	Price Each
P487 A 3705	260	32 in.	$9.45
P487 A 3706	320	42 in.	10.45
P387 A 3707	390	52 in.	11.45

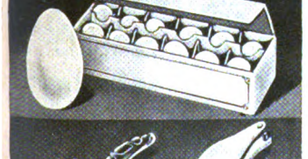
21-in. Drum—Fuel Oil

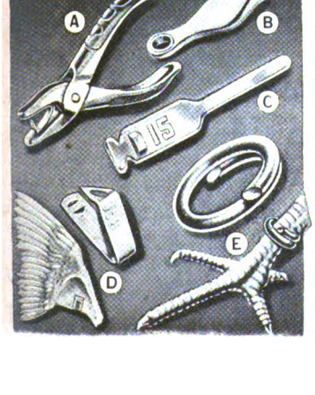
$2 a Month **$12.45** Cash See Back Cover

3 Blued Steel Hot Blast Tubes cut fuel costs 25%—add 325 sq. in. extra radiation area, work just like hot air registers! Cast burner, wafer thermostat control, asbestos lighting ring. Blue Steel drum, Slip-Joint canopy. Burns kerosene or 38–40 distillate, 2 to 8 gals. a day. 8-gal. Zinc-grip fuel tank, copper tube Fuel line, draft adjuster. Accurate thermometer. Height 22½ inches. Cleaning rod. Takes 5-in. pipe. **Shipped from Stock.** Shipping weights 53, 58, 63 lbs. *Not Available.*

Article Number	6-Week Cap.	Canopy Diam.	Cash Price
187 A 3566	310	36 in.	$12.45
187 A 3567	375	46 in.	13.45
187 A 3568	450	56 in.	14.45







GALVANIZED LAYING AND TRAP NEST

$4.25 4-nest

Strong 28-ga. steel. Hinged wood perches. Open backs for easy cleaning—just tilt bottom outward. Each nest 12x13x13 in. sq. with 9-in. round front opening. Provide 1 nest for each 5 hens. *Not Available.*

187 A 4020—4-nest section. 2 rows of 2 nests each. Without traps. Ship. wt. 35 lbs. $4.25

187 A 4021—8-nest section. 2 rows of 4 nests each. Without traps. Ship. wt. 50 lbs. $7.25

Galvanized Steel Trap Doors for above nests.

87A4022—Four. Ship. wt. 4 lbs. *Available*. 55c

Use Your Credit—See Inside Back Cover

WARDS HEN NESTS

Rust-resisting copper bearing steel wire with steel braces. Loops for fastening.

587 A 3890—Diam. 13 in.; 6½ in. deep. Three, Wt. 2¼ lbs. . . . . **55c** Twelve, Wt. 9 lbs. $2.05

587 A 3892—Diam. 14 in.; 8 in. deep. Wt. three, 3 lbs. 3 for . . .70c; 12 for . . .$2.60

TRAP FRONTS

Use with home made nests—cull out the non-layers! 28-ga. galv. steel, 12 by 14½-in. opening. Fit square opening. Wts. 2 lbs.; 11 lbs.

87 A 4023—*Available.* Ea. . . **37c** Six for $1.95

NEST EGGS—ENCOURAGE HENS TO LAY

Non-chilling, unbreakable . . . made of wood. Correctly shaped, white enameled—easy to clean. Won't absorb moisture or odor. Sold only in boxes of 12.

87 A 3920—One Dozen in Box. Ship. wt. 1 lb. . . **28c**

MARK YOUR POULTRY FOR RECORDS

Ⓐ **Steel Pliers**—For applying wing bands.

87A3575—Wt. 4 oz. .43c

Ⓑ **Spring Metal Toe Punch**—Makes round hole in web of toe.

87A3818—Wt. 1 oz. .10c

Ⓒ **Numbered Leg Bands.** Aluminum. Double fastener lock. For all fowl but baby chicks. *Special numbering 20c extra per 100; and shipped from Factory near Cincinnati, O.* Ship. wts.: 2, 3, 5, 10, 15 oz.; 1¼ lbs. and 2 oz.

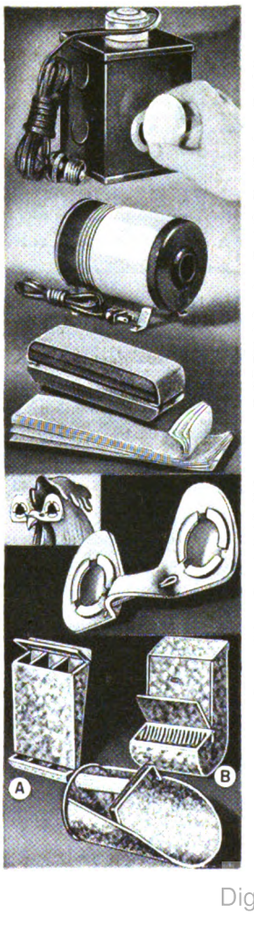
87A3836—1 to 25. . . 9c
87A3837—1 to 50. . .16c
87A3838—1 to 100. .33c
87A3828—1 to 200. .65c
87A3810—201–500. .99c
87A3814—501–1000. . . . . .$1.69
87A3899—Extra Large for Turkeys, 1 to 25. .12c

Ⓓ **Jiffy Wing Bands.** Self-piercing, self-sealing type. For baby chicks or grown fowl. Tempered aluminum, 5/16 in. wide. Numbered in series—no series broken. Wts., 2, 3, 6, 8, 13 oz.

87A3570—1 to 50. .39c
87A3571—1 to 100. .75c
87A3572—1–200. .$1.49
87A3573—201–500 2.20
87A3574—501–1000 3.49

Ⓔ **Colored Coil Leg Bands.** Genuine DuPont Pyralin. Pkgs. of 50 in 1 color. We do not break pkgs. To fit any breed. COLORS: Red, White, Blue, Green, Pink, Yellow, and Black. State color. Ship. wts. for 50 small bands, 2 oz.; for 50 large, 3 oz.

87A3833—Baby Chick size. ¼-in. 50 for. 7c
87A3834—Small breed size. 5/16-in. 50. . . . . .13c
87A3835—Large breed size. 11/16-in. 50. . . . . .16c
87A3829—Extra Large size. 13/16-in. 50. . . . . .21c
87A3766—For Turkeys. Double coil, ⅜-in. size Wt. 2 oz. 25 for. 29c
87A3767—For Turkeys. Double coil, 1-in. size. Wt. 2 oz. 25 for. 35c



ELECTRIC BULB CANDLER

$1.15

Light ray shows instantly if egg is fertile. Green painted metal case with metal reflector . . . soft rubber egg cup. With 6-ft. cord and plug, and 60-watt bulb. 110–120 volt A.C., D.C.

87 A 3867—Ship. wt. 1 lb. 8 oz. **$1.15**

JIFFY-WAY ELECTRIC CANDLER

$1.19

Entire inside of case acts as reflector—lets you use smaller bulb. Heavy tin plate, rubber cushioned opening. Metal feet drilled for mounting in any of 3 positions. 7 by 4⅞ by 5½ in. high. Red and white finish. 6-ft. cord, plug. Bulb not included. 110 volt A.C., D.C.

87 A 3869—Ship. wt. 2 lbs. . .$1.19

"DRY CLEAN" EGG CLEANER

25c

Clean eggs look more attractive on the counter . . . bring you better prices! Pliable sanded cloth . . . sponge rubber cushion base. Attached to easy-grip wood handle with two wing nuts.

87 A 3553—6 by 2 in. Wt. 9 oz. .25c

87 A 3593—**Extra Sanded Cloths.** 6 in package. Ship. wt. 4 oz. 29c

WARDS CHICKEN LENSES

55c 25 Pairs

Stops cannibalism—prevents picking. Transparent lenses discolor all objects . . . make blood unnoticeable. Metal guard won't interfere with drinking or eating. Steel pins.

87 A 3684—25 Pr. Wt. 8 oz. . . .55c

100 Pair. Ship. wt. 2 lbs. $2.10

Ⓐ GRIT AND SHELL BOX

Galv. 28-ga. steel. 3 vertical sections hold 3 kinds of feed. Has bent feed-saving lip. Waterproof top. 13½ in. high, 8 in. wide.

587 A 3839—Ship. wt. 4 lbs. 89c

Ⓑ RATPROOF WALL HOPPER

Galv. 28-ga. steel, 18 in. high, 12 in. wide. Won't clog—lip on trough prevents waste. Trough is 5 in. deep. Agitator and wire guard.

487 A 3857—12-Qt. Wt. 7 lbs. **$1.59**

FEED AND GRAIN SCOOP

Holds over 3 qts. Galv. steel, wood handle. Bolt through entire handle. Reinforced with steel bar. Balanced—won't spill feed.

87 A 3513—Ship. wt. 1 lb. 10 oz. .65c

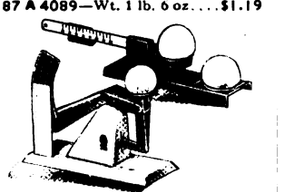


Jiffy-Way Grader

Wards best . . . a $1.65 value! Fast reading dial shows weight and grade of egg instantly. Grades eggs from 18 to 30 oz. per doz., and from 1½ to 2½ oz. per egg. Dial registers "Small," "Medium," "Large," and "Extra Large." All-steel with brass bearings . . . more accurate than springs. Hanging leveling device.

$1.19

87 A 4089—Wt. 1 lb. 6 oz. $1.19



Standard Qual. Egg Grader

All-steel, brass bearings—no springs. Aluminum embossed dial. Grades eggs from 18 to 30 oz. per doz., and 1½ to 2½ oz. each. Leveling device in base. Ship. wt. 1¼ lbs.

97 A 3866. .95c

Economy Qual. Egg Grader

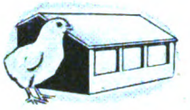
Knife-edge balance for fast dependable grading. Grades eggs from 18 to 32 oz. per doz. Sturdy iron construction—standard grading hole. No springs. Ship. wt. 14 oz.

87 A 3868. .42c

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CEL-O-GLASS Admits Ultra-Violet Rays





For Windows and Doors in Hog, Chicken Houses and Hot Houses



Genuine Du Pont Cel-O-Glass—Branded for Your Protection—Extra Durable

30¢ Per ft. 28-in.

Stimulate greater health and growth in your plants, poultry, and animals by using genuine Du Pont Cel-O-Glass in nursery and animal house windows instead of ordinary glass . . . let all the beneficial Ultra-Violet Rays from the sun indoors! Scientific proof has definitely established that egg production has been increased, baby chick mortality reduced, and plant life "stepped up" through the use of Cel-O-Glass in windows. See the proof at left! The small plant behind regular glass gets none of the benefits of Ultra-Violet Rays . . . the vigorous, blooming plant, behind Cel-O-Glass, gets its fill of Ultra-Violet Rays.

Strong, Durable—Lasts 5 to 7 Years—Cel-O-Glass is made of tough, glossy cellulose acetate reinforced by 14-mesh galvanized wire screen.

Exclusive Oval Wire Construction—The reinforcing wires in Cel-O-Glass are oval shaped . . . hold a coating of acetate that's nearly twice as thick as that on glass substitutes having round reinforcing wires. Because of this, Cel-O-Glass lasts longer!

Weatherproof, Sleetproof—Keeps Heat Inside—Double-thick acetate coating prevents warm air inside the house from escaping . . . keeps out wind, hail, snow, rain, and sleet. Diffuses the light in a soft glow to every corner of room . . . won't create a glare even in strong sunlight.

Easy to Handle—Easy to Install—Use Cel-O-Glass instead of regular glass for windows in your brooder house, hen house, hog houses, or hot houses. Use it also on sun porches and in garages. All you have to do is cut it with scissors and tack it into place on a frame.

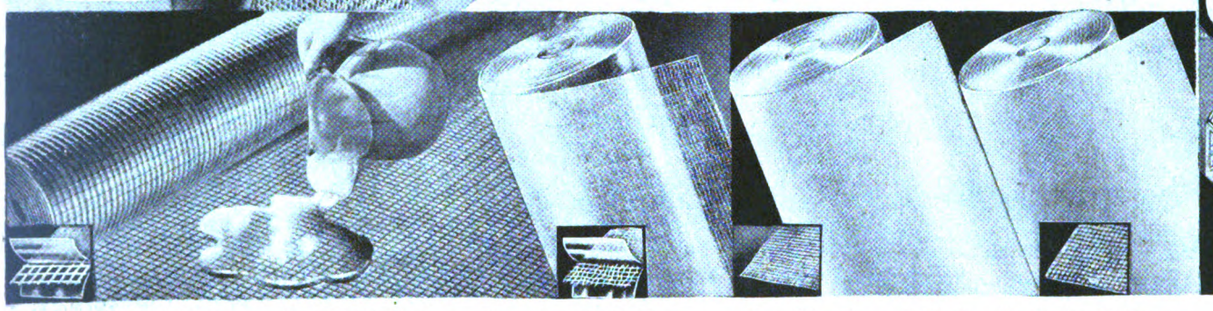
Sold in 25, 50, and 100-ft. rolls, or in any length up to 100 feet in one piece. Buy a 100-ft. roll for only $5 a Month . . . have enough to make 50 two by three-ft. windows. See Inside Back Cover. *Mailable.*

FULL 28 INCHES WIDE

687 A 4050—Ship. wt. per running ft. 6 oz.; 25-ft. roll, 9 lbs.; 50-ft. roll, 17 lbs.; 100-ft. roll, 34 lbs. Per foot.....**30c**

FULL 36 INCHES WIDE

687 A 3980—Ship. wt. per running ft. 8 oz.; 25-ft. roll, 12 lbs.; 50-ft. roll, 23 lbs.; 100-ft. roll, 45 lbs. Per foot.....**38c**





Carry-Safe Egg Cartons Sell Your Eggs Faster

$1.15 per 125

The type of Egg Carton demanded more and more by distributors everywhere. Each carton is made from one piece of molded pulpboard . . . shaped to make a perfect cushion for egg on top, bottom, and both sides (see picture above).

Tough and durable . . . no outside pieces to work loose. Strong metal fastening clips furnished . . . lock lid securely. Practical for household use. You can use the cover as a tray under the bottom . . . place the whole carton in your refrigerator. Eggs are in full view at all times . . . are easily accessible without removing tray from shelf.

Shipped nested—take little space in storeroom. No assembling necessary.

487 A 3887—3 by 4-Row Shape. (Hold 1 doz. eggs.) *1000 Not Mailable.*
125 Cartons. Ship. wt. 13 lbs...$1.15
250 Cartons. Ship. wt. 25 lbs... 2.10
500 Cartons. Ship. wt. 50 lbs... 4.10
1000 Cartons. Ship. wt. 100 lbs.. 8.00



Now—DOUBLE Waterproofed Vi-O-Phane

14½¢ ft.

It's tougher, stronger, longer wearing than ever before! Equal to any glass substitute in helping plants and animals to develop indoors, because it transmits all the beneficial ultra-violet rays. And it's DOUBLE WATERPROOFED, too—sheds water just like a duck's back . . . won't soak up water at the ends!

New Waterproof Transparent Film. It's coated with an entirely new type of transparent plastic film, having the highest tensile strength for its thickness of any film used in a glass substitute. Laboratory tests prove film withstands more bending, without shattering, than any other film of it's kind . . . prove it's 100% waterproof. But that isn't all!

Waterproof Reinforcing Mesh. Reinforcing cord mesh in Heavyweight Vi-O-Phane has been specially treated, too—won't soak up water! No danger of sheets splitting apart when exposed ends of the mesh get wet. Saves on replacements!

Easy to Install—Just cut with scissors and tack into place. In any length up to 100 ft., in one piece. 36 inch width only. Ship. wt. per running ft., 2 oz.; 10-ft. roll, 1 lb.; 50-ft. roll, 5 lbs.; 100-ft. roll, 10 lbs. *Mailable.*

687 A 4092—Heavyweight Vi-O-Phane. Per running foot...**14½c**

Regular Vi-O-Phane

10¢ ft.

Same ultra-violet ray transmitting power as Heavy Wt. at left. 2 medium wt. sheets of cellulose acetate fused on both sides of mesh cloth. Keeps heat inside—rain out. In any length up to 100 ft. in 1 piece. 36-in. width only. Ship. wt. per running ft. 1½ oz.; 15-ft. roll, 1 lb. 6 oz.; 30-ft. roll, 2 lbs. 12 oz.; 100-ft. roll, 9 lbs. *Mailable.*

687 A 4094—Running foot..**10c**

Heavyweight Vi-O-Phane Remnants—25-Foot Roll

Use these remnants to repair poultry house windows. No piece shorter than 5 ft.—all 36 in. wide. *Mailable.*

587 A 4093—Wt. 4 lbs..**$3.40**

Paraffin Coated Cloth—Made by DuPont

Warmer, costs less than ordinary glass. Lets in a high percentage of beneficial ultra-violet rays. Tough, pliable, throws no glare. Keeps out rain, snow, and sleet. Recommended for replacing broken panes of glass in brooders, hen houses, poultry houses, hog pens, and sheds temporarily. Easy to apply—cut with scissors and tack in place. Easy to splice or patch by applying a hot iron.

Heavy Weight Vig-O-Ray **7¢** Per Run. ft.

Thick Paraffin Coating on heavy cotton base. Thread count is 64 by 60—much heavier than usually sold at this price! About 36 in. wide. Shipping weight per running foot, 3½ oz.; 15 running feet, 2 lbs. 8 oz.; 30 running feet, 5 lbs.; 100 running feet, 16 lbs. *Mailable.*

687 A 4090—Per run. ft.....7c
15-foot length.....**98c**
30-foot length.....**$1.89**
100-foot length.....**5.89**

Medium Weight Place-O-Glass **5½¢** Per Run. ft.

Thick Paraffin Coating on medium weight cotton base. Thread count is 48 by 40. Excellent for temporary shelters. About 36 inches wide. Wt. per running foot, 3 oz., 15 running ft. 2 lbs. 4 oz., 30 running ft. 4 lbs. 8 oz., 100 running ft. 15 lbs. *Mailable.*

687 A 4055—Per run. ft...**5½c**
15-foot length.....**77c**
30-foot length.....**$1.45**
100-foot length.....**4.49**

Attractive Cardboard Cartons

85¢ per 125

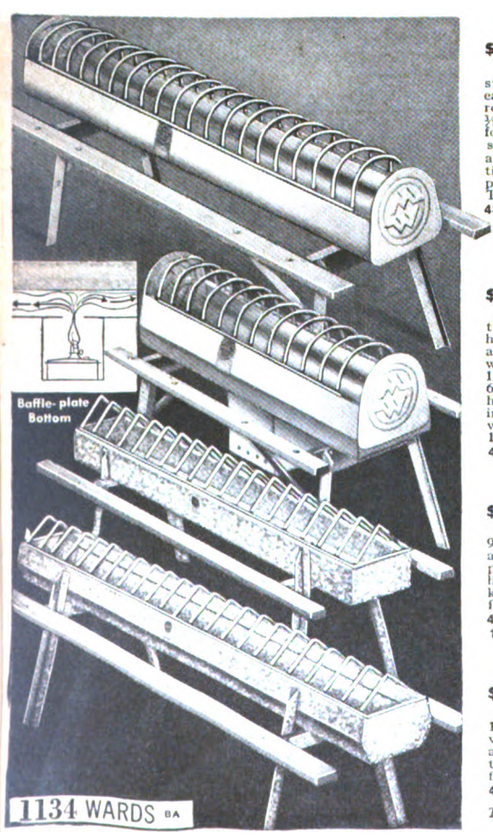
Eggs boxed in these neat Cartons not only look better but sell better. Excellent for counter displays in stores or roadside stands. Substantial cardboard construction—light but strong. Helps prevent egg breakage. 2 shapes (2 by 6, or 3 by 4).

70 lbs. or over Not Mailable.

487 A 3846—3 by 4 Shape Cartons.
125 cartons. Ship. wt. 14 lbs.....**85c**
250 cartons. Ship. wt. 27 lbs.....**$1.59**
500 cartons. Ship. wt. 54 lbs.....**2.98**
1000 cartons. Ship. wt. 108 lbs.....**5.79**

487 A 3847—2 by 6 Fit Standard crates.
125 cartons. Ship. wt. 17 lbs.....**$1.59**
250 cartons. Ship. wt. 35 lbs.....**2.98**
500 cartons. Ship. wt. 70 lbs.....**5.75**
1000 cartons. Ship. wt. 140 lbs.....**10.95**

WELL-FED HENS ARE HEALTHIER..LAY MORE EGGS FOR YOU



SUPREME QUALITY FLOCK FEEDER

$4.29 5-ft

- **Smooth-All-Over Design.**
- **Zincgrip Galvanized Steel.**

A real man-size Flock Feeder—so strongly built it'll hold 4 men weighing 175 lbs. each! 26-ga. Zincgrip Steel trough is smoothly rounded—no corners or angles to trap dirt. ½-in. oval wire grill prevents roosting, folds back for cleaning and filling. Smoothly soldered seams will hold water or feed. Braced angle steel legs are spread wide to prevent tipping. Redwood perches (1 by 3 in.) are mite-proof, waterproof . . . 16 in. above floor. Trough is 10 in. wide, 4⅝ in. deep.

487 A 3816—5-ft. Wt. 28 lbs. *Mailable*..**$4.29**
187 A 3817—8-ft. Long. Ship. wt. 39 lbs. *Not Mailable*.....**5.85**

HEATED FLOCK WATERER

$5.45

Supreme Quality twin of feeder above. Has same rugged 26-gauge Zincgrip steel construction. Extra baffle plate bottom (shown at left) spreads heat from No. 2 Badger Kerosene burner along the entire bottom of trough . . . keeps water from freezing even in coldest weather. 1½-qt. fuel tank supplies heat for 3 days. 6-gal. trough has smooth soldered seams, heavy oval wire hinged grill. Use it as a feeder in summer time. Strong angle steel legs. Redwood perches (16 in. above ground). Trough 10 in. wide, 4⅝ in. deep. *Mailable.*

487 A 4019—3 ft. long. Ship. wt. 28 lbs...**$5.45**

SUPERIOR QUALITY FLOCK FEEDER

$3.10 5 ft.

Second only to Supreme Quality above in construction and long life! Galvanized 28-ga. trough is 9 in. wide, 4⅝ in. deep. 18-ga. angle steel legs are well-braced—hold more than 200 lbs. Mite-proof, waterproof Redwood perches are 16 in. high from floor. Welded galvanized wire grid keeps droppings out of feed . . . swings back for filling. Wts. 19, 30 lbs.

487 A 3820—5 ft. long. *Mailable*.....**$3.10**
187 A 3821—8 ft. long. *Not Mailable*....**4.45**

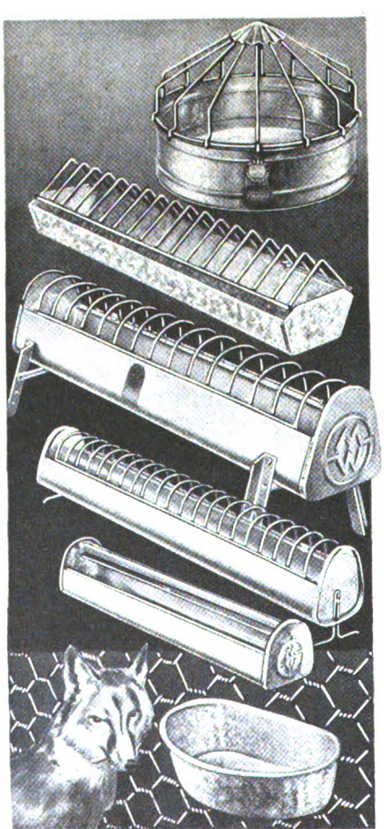
ECONOMY QUALITY FLOCK FEEDER

$1.69

Low priced yet strongly built. Galvanized 4-ft. trough holds ⅘ bushel feed or wet or dry mash. 18-ga. angle steel legs are well braced, spread wide. Galvanized steel grids prevent roosting and fouling of feed . . . are hinged to side of trough. Redwood perches 14 in. high above floor. Trough 7¾ in. wide, 4 in. deep. *Mailable.*

487 A 3804—Ship. wt. 17 lbs **$1.69**

Troughs on all Ward Flock Feeders above have bent-in lips to prevent loss of feed.



ZINCGRIP FEEDER OR WATERER

82¢

For chicks or grown fowl. 28-ga. Zincgrip steel pan. Detachable wire guard prevents roosting. 14 in. diam., 4 inches deep. Bent feed saving lip. Holds about 9 qts.

587 A 3825—Ship. wt. 3 lbs. 8 oz. Each..**82c**

BROILER OR FLOCK FEEDER

69¢ 30 in.

Galvanized steel. Flanged lip prevents feed loss. Hinged wire guard has 1⅝-in. spaces. Ht. 5½ in. 6½ in. wide, 3⅜ in. deep.

487 A 3852—30 in. long. Wt. 4 lbs.....**69c**
487 A 3853—48 in. long. Wt. 5 lbs.....**$1.05**
487 A 3854—60 in. long. Wt. 8 lbs.....**1.19**

ADJUST. GROWN FLOCK FEEDERS

$1.59 36 in.

For broilers, pullets, turkey poults, ducklings. Rounded feed troughs, spot welded ends. 26-ga. Zincgrip steel. Feed saving lip. Hinged guard. Troughs 8 in. wide, 4 in. deep. 16-ga. angle iron legs are adjustable to 4, 5, or 6-in. height. Overall height 9⅝ inches.

487 A 3510—36 in. long. Wt. 8 lbs....**$1.59**
487 A 3511—48 in. long. Wt. 10 lbs...**1.89**
487 A 3512—60 in. long. Wt. 12 lbs...**2.25**

ADJUST. GROWING CHICK FEEDERS

95¢ 36 in.

26-ga. Zincgrip steel. Rounded troughs are 6 in. wide, 3 in. deep. Hinged wire grids prevent perching. Bent feed saving lip. ⅛-in. wire legs adjust ¾ in. up or down. Ht. 7 in.

487 A 3508—36 in. long. Wt. 5 lbs.....**95c**
487 A 3509—48 in. long. Wt. 7 lbs....**$1.29**

ZINCGRIP BABY CHICK FEEDERS

49¢ 24 in.

Sets on floor. Adjustable, easy rolling metal reel—removable for cleaning and filling. Rounded bottom trough with bent feed saving lip and welded ends. Trough 4½ in. wide, 2¼ in. deep. 26-ga. Zincgrip steel.

487 A 3505—24 in. Ship. wt. 2 lbs.....**49c**
487 A 3506—36 in. Ship. wt. 3 lbs.....**69c**
487 A 3507—48 in. Ship. wt. 4 lbs.....**85c**

1-PC. GALVANIZED COOP CUPS

22¢ ½-pt.

Use them on battery brooders or show coops . . . hang them along fence in poultry yard—protect water or feed from dirt, litter. 1 and 2-qt. sizes often used in dog kennels and for farms. 1-pc. die drawn steel, smooth edges. Hooks on back. Wts. 4, 10 oz., 1 lb.

87 A 3821—½-pint capacity.....**22c**
87 A 3622—1-Qt. 45c; **87 A 3623**—2-Qt. 69c

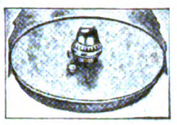
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WARM WATER Increases Growth · Egg Yield

OIL HEATED FOUNT


Double-Action Valve


Litterproof Pan


Giant Burner, Tank

Supreme Quality—Zincgrip Steel

- Extra Large Water Capacity—Hold Full 7 and 10 Gallons. Handle Big Flocks
- Positive Double Action Solid Brass Float Valve—Prevents Overflow.
- Recessed Litterproof Drinking Pan Keeps Droppings Out of Water—Big Drinking Space.
- Giant No. 2 Brass Kerosene Burner—3-Week Capacity Fuel Tank Occupies Entire Base. Holds 5 qts.

$4.45 7-Gal.

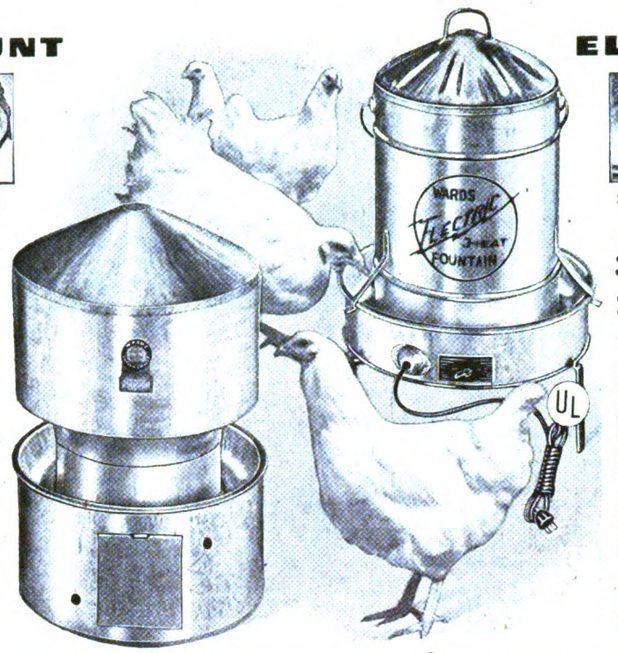
It's streamlined . . . it's improved . . . it's an exclusive Ward design! Every seam and joint has been made smooth—easier to clean . . . absolutely no crevices to trap dirt, litter, or germs. Even the galvanizing is smoother than on ordinary founts because it's thicker, stronger, 26-gauge Zincgrip . . . the toughest galvanizing money can buy! This finish is double-bonded to heavy sheet steel base—won't crack, chip.

Slanting cone top prevents roosting—removes for filling, revealing rounded handle which lifts supply tank off base. Recessed trough gives fowl plenty of room to drink without crowding—has smoothly rounded edge—easy to clean. Yet with all these features, look at the price! The 7-gal. size costs you less than most 5-gallon founts elsewhere—gives you extra capacity to water a bigger flock.

487 A 3718— 7-gal. size. Ship. wt. 16 lbs. *Mailable*..... $4.45

487 A 3719—10-gal. size. Ship. wt. 17 lbs. *Mailable*..... 4.95

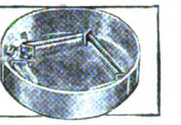
Every 100 hens need 6 to 8 gallons of warm water daily during heavy winter egg production. Give your hens the chance to give maximum egg output every day this winter—give them properly warmed water from Wards Heated Founts.



ELECTRIC FOUNT



3-Heat Economy Switch


Nichrome Wire Element

Supreme Quality—Zincgrip—$5.50 Value

- Underwriters' Approved—Won't Burn Out!
- Nichrome Element — 3-Heat Economy Switch Lets You Regulate Water Heat.
- Solid Brass Float Valve—No Overflow.
- Sanitary, Litterproof. Extra Wide Design—No Crowding at Drinking Pan.
- Full 5-Gallon Capacity—Supplies Properly Warmed Water to 75 Chickens for One Day.

$4.75

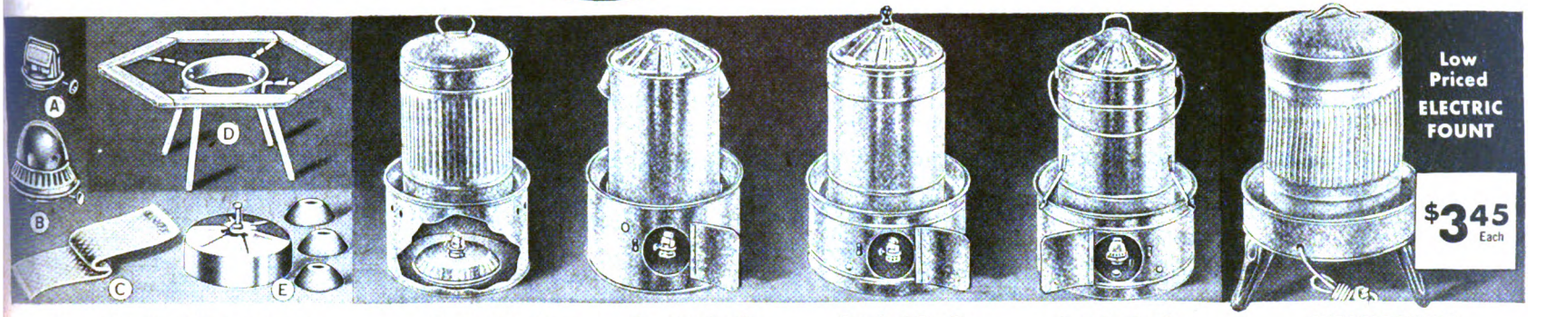
Pay less than you would for most oil heated Founts elsewhere—get dependable CONTROLLED-ECONOMY heating and many other features usually found in electric founts costing 25% more!

Uses only a few cents worth of current per day to supply warm drinking water for 75 fowl. And the efficient 3-heat economy switch enables you to regulate temperature of water—cut electricity bills. Switch can be set for low, medium, or high temperature depending on the weather—adjusts for 30, 60, or 90 watts of current. Nichrome wire element keeps water warm constantly—not just part of the time.

Made of 24-ga. Zincgrip Steel—the Super-Galvanized Steel that won't chip or crack. Resists rust longer because its double-bonded zinc coating is stronger at points of greatest wear! 5-gal. water tank has removable cone-shaped roostproof top. Snaps securely into drinking pan—won't tip over. Float valve keeps pan filled to correct level.

Pan is full 15½-in. diam., has smooth rolled edge. Sets on ⅛ by ¾-in. strap steel stand (painted red). Ht. overall, 22½ inches. With 8-ft. rubber cord and plug. For 110-volt A.C. Uses little as .2 K.W.H. daily under normal conditions. Complete with inside and outside carrying handle.

487 A 3953—Ship. wt. 13 lbs. *Mailable*..... $4.75



Repairs for Winter Founts

Your hens will lay more eggs in cold weather if you have warm water on hand. Repair your heated founts now, before winter comes. Include parts in $10 order—Buy on Time. See Back Cover.

(A) No. 2 Brass Badger Burner— Chimneyless type, used on founts 3726, 3728, 3952, 3779. 1¼-in. bowl stem. Uses No. 2 wicks. Wt. 2 oz.
87 A 3926—Each . . . **23c**

(B) No. 2 Giant Brass Burner—chimneyless type. Used on heated founts 3723, 3724, 3718, 3719. Ship. wt. 4 oz.
87 A 3925—Each . . . **49c**

(C) No. 2 Wicks—1-in. Fit above burners.
87 A 3927—Ship. wt. 8 oz. Six..... **5c**

Miteproof Fount Stand **$1.59**

(D) Makes strong foundation for all heated and insulated founts. Smooth finished Redwood perches are 1 by 2 in.—miteproof and waterproof . . . Channel steel legs are widely spaced to prevent tipping—keep fount litterproof. Fount sets 14 in. above floor. Ship. wt. 8 lbs. *Mailable.*
587 A 3957—Each..**$1.59**

(E) Brass Float Valve No stem or washer. Fits float type founts.
87 A 3776—Wt. 6 oz..**40c**
87 A 3777 — **Rubber Washers.** Ship. wt. 2 oz. 3 for **10c**
87 A 3784—**Valve Stem.** Wt. 3 oz. Each..... **10c**

Standard Quality Vacuum Type Fount

$2.59 Each

You'd expect to pay more for this dependable vacuum type oil heated Fount elsewhere . . . because it has **actual capacity** of 5 gallons (is not usual trade size). Holds full day's supply for 75 fowl. Well made of 28-ga. corrugated galvanized steel . . . it's big, broad, and short (only 22 inches high), not tall, slender, and easy to knock over! Extra high base keeps pan away from litter. Double wall. No. 2 brass kerosene burner, large fuel tank. *Mailable.*
487 A 3952—Shipping wt. 14 lbs..... **$2.59**

Superior Quality Vacuum Type Fount

$2.89 Each

Stronger, sturdier, better made than Standard Quality at left . . . has larger diam. drinking trough — accommodates more chickens at one time. Double wall vacuum-fill, with brass spring shut-off valve.

No. 2 chimneyless Brass Kerosene Burner keeps water from freezing in coldest weather—fuel tank (occupying entire base) holds ample fuel for 3 wks. Full 5-gallon capacity. Convenient hand grips on sides of 28-ga. galv. tank. Shipping wt. 21 lbs.
487 A 3779—*Mailable* **$2.89**

Standard Quality Float Valve Fount

$3.25 5-Gal.

Wards lowest priced float valve heated Fount . . . yet it equals founts elsewhere that are often called "best" Made of 28-ga. galvanized steel. Double acting brass float valve (a feature usually found only in higher priced founts). Heated by chimneyless type No. 2 brass kerosene burner. Fuel tank occupies entire base . . . holds 3 week fuel supply. Top removes for filling—cone shape to prevent roosting. Smooth edge drinking trough gives big drinking space. Top fill. Wts. 14, 15 lbs. *Mailable.*
487 A 3728—5 Gal....**$3.25**
487 A 3728—8 Gal.... **3.69**

Superior Quality Float Valve Fount

$3.65 5-Gal.

Efficient, sanitary, convenient. Second only in quality to Supreme Fount above. Made of 26-ga. galvanized copper-steel. Handy bail handle lifts entire fount off base. Trouble-proof, double acting solid brass float valve prevents overflow—when pan fills valve shuts off water flow.

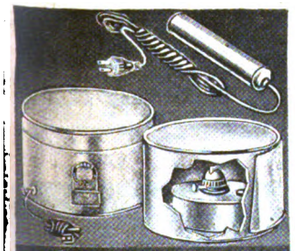
Heated by Giant No. 2 Kerosene Burner. Tank occupies entire base . . . holds enough fuel for 3 weeks' heating. Top fill. Non-roost cone top. Wts. 9, 15 lbs. *Mailable.*
487 A 3723—5 Gal....**$3.65**
487 A 3724—8 Gal.... **3.98**

MIRACLE VALUE Full 5-Gallon Capacity

The first full-size electric heated Fount under $3.69. Holds full 5 gallons of water—keeps it heated to correct temperature constantly. Fully enclosed 65-watt electric element operates for only a few cents a day . . . uses as little as 1½ K.W.H. of current every 24 hours, under normal conditions.

Fount is telescoping double wall vacuum type. Fills from the top—vacuum maintains uniform water level in drinking pan. 28-gauge galvanized steel construction—won't rust or corrode. Wide pan prevents overcrowding. Fount sets on stamped steel legs—keeps pan out of dirt and litter. Legs are spread wide to prevent tipping. Sold complete with 5½-foot cord and plug. For use on 110-volt A.C. circuit only. Ship. weight 12 lbs. *Mailable.*
487 A 3542—Each..... **$3.45**

Add a Fount to Your Poultry Supply Order—Buy on Time. See Back Cover.



IMMERSION-TYPE HEATER

$2.75 Shockproof. Automatically keeps 12 qts. water at 50° temp. Zinc-plated brass case. 110–120 volt, 135 watts. 5½-ft. cord and plug.
87 A 3655—Ship. wt. 1 lb. Each..... **$2.75**

Electric Heater **$2.75**
Automatic—for any fount! Just plug in the cord and set Heater under fount. 26-ga. galvanized Zincgrip steel. 150-watt element. For 110-volt A.C. 8-ft. cord, plug. Wt. 6 lbs.
587 A 3906..**$2.75**

Kerosene Heater **$1.65**
Keeps water from freezing in any kind of a fount. Heavy 26-gauge Zincgrip galvanized steel. No. 2 Badger Kerosene brass burner with three-day supply tank—holds 1½ qts. of fuel. Diam. 12 in.; ht. 8 in. Ship. wt. 8 lbs.
587 A 3722—Ea..**$1.65**



DUST LICE AND MITES AWAY!

30c 5-lbs. One of the most effective ways to kill lice and mites on chickens. Wards Tobacco Dust is guaranteed to contain at least 1½ nicotine—won't harm fowl. Dust on dry when applying to birds. Feed to poultry to kill large round worms. Mix 5 lbs. to 10 gallons water as a spray for roosts, floors, etc.
87 A 7200—5-lb. sack. Ship. wt. 7 lbs.....**30c**
487 A 7201—25-lb. bag. Wt. 28 lbs.....**$1.25**
187 A 7202—100-lb. bag. *Not Mailable*... **3.29**

DOMESTIC POULTRY LITTER PEAT

$3.45 Per Bag 8 cu. ft. bags. Absorbs 15 times its own weight in moisture. Won't harbor lice! **Shipped from Stock** in Baltimore or Albany.
187 A 3931—Ship. wt. 85 to 100 lbs..... **$3.45**



HORTICULTURAL PEAT

Helps soil to store nitrogen. Builds it up.
187 A 3933—Ship. wt. 110 to 120 lbs..... **$3.85**

FLOOR SCRAPER

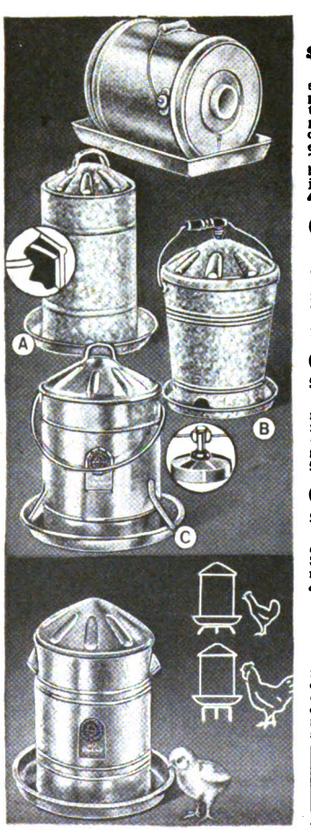
Cleans dropping boards. Double-edge steel blade riveted to hardwood handle. *Mailable.*
487 A 3903—12-in. blade, 4-ft. handle. Wt. 3 lbs. **48c**
487 A 3904—15-in. blade, 5-ft. handle. Wt. 4 lbs..**89c**

SODIUM FLUORIDE

For dusting or dipping grown fowls. Kills roaches, ants, lice. Ship. wts. 1 lb. 10 oz.; 6½ lbs.; and 28 lbs.
87 A 7216— 1 lb. **35c**
87 A 7217— 5 lbs.. **$1.59**
487 A 7218—25 lbs... **6.45**

TOXITE DISINFECTANT

Kills lice. Helps control Coccidiosis. Use in laying houses and hen houses. Ship. wts. 3, 8, 43 lbs.
87 A 7295—1 qt..... **43c**
487 A 7296—1 gal.... **$1.29**
487 A 7297—5 gals... **5.60**



5-GAL. DRUM TYPE FOUNT

$1.29 5-Gal. Improved! Extra trough space allows more chicks to drink at the same time . . . rounded sides protect water from litter and droppings . . . Zincgrip Galvanized finish protects it from rust and weather. Yet you pay only $1.29! Full 5-gal. capacity—a day's supply for 75 fowl. Easy to carry, easy to fill. Dependable vacuum type. Trough removable for cleaning. 26-ga. beaded construction. Wood handle. Mason jar screw cap.
487 A 3914—Ship. wt. 9 lbs..... **$1.29**

(A) TOP FILL DOUBLE WALL FOUNT

Vacuum type. Top and water container separate telescoping cylinders. Galv. steel. Hand grips on 2 large sizes.

Article Number	Size Gals.	Wt. lbs.	Each
587 A 3915	1	3	85c
587 A 3916	2	5	$1.25
487 A 3917	3	8	1.39
487 A 3918	5	11	1.89
487 A 3919	8	15	2.49

(B) 10-QT. PAIL TYPE FOUNT

$1.49 10-Qt. For growing chicks to broiler size—use it also for grown flocks. Top-fill type with removable drinking pan. Double-acting brass float valve prevents pan from overflowing—pail won't leak when you carry it. 29-ga. galvanized steel. Wire handle, wood grip.
587 A 3752—Wt. 5 lbs. 4 oz..... **$1.49**

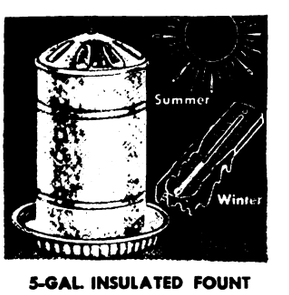
(C) ZINCGRIP FLOAT VALVE FOUNT

$2.35 5-Gal. Full 5-gallon capacity. Double acting brass float valve prevents overflow. Made of chiproof, crackproof 26-ga. Zincgrip steel. Spring clips and bail make it easy to carry. Top fill. All-around pan—Cone top.
487 A 3656—Ship. wt. 10 lbs..... **$2.35**

3-IN-1 FOUNT WITH STAND

$1.59 3-Gal. It's 3 founts in one! Fount alone for chicks . . . with two-way stand for broilers . . . or full grown fowl. Top fill double wall vacuum type. 26-ga. Zinc-grip steel. Self-closing brass valve shuts off water when outer cover is removed. Stand reverses for 2¾ or 3¾ in. height. Pan diameters are 12, 17 and 17 in.

Cap. Gal.	With Stand Art. No.	Lbs.	Each	Without Stand Art. No.	Lbs.	Each
3	487 A 3554	8	$1.75	487 A 3688	7	$1.59
5	487 A 3583	14	2.39	487 A 3689	10	2.10
7	487 A 3584	19	2.98	487 A 3690	16	2.75



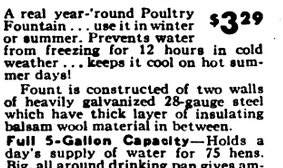
5-GAL. INSULATED FOUNT

$3.29

A real year-'round Poultry Fountain . . . use it in winter or summer. Prevents water from freezing for 12 hours in cold weather . . . keeps it cool on hot summer days!

Fount is constructed of two walls of heavily galvanized 28-gauge steel which have thick layer of insulating balsam wool material in between.

Full 5-Gallon Capacity—Holds a day's supply of water for 75 hens. Big, all around drinking pan gives ample room for chickens to drink without crowding. Solid brass float valve gives steady supply of water—prevents overflowing. Ribbed, cone shaped top prevents roosting—removes for filling. Ship. weight 16 lbs.
487 A 3775—*Mailable*..... **$3.29**



FLOAT VALVE 75c

Fully automatic—gives troubleproof operation. Capacity about 2½ quarts per minute. Solid brass, with ½-in. male and ¼-in. female thread.
87 A 3675—Ship. wt. 10 oz..... **75c**

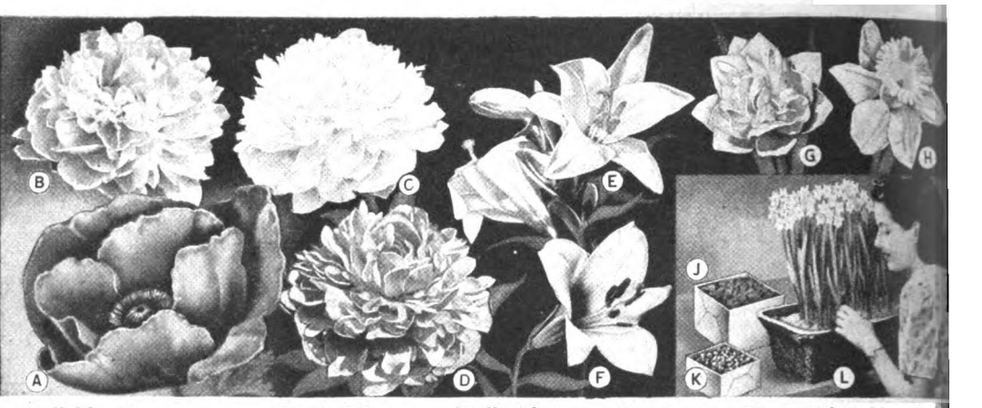
***Use Your Credit*—Buy any of Wards Poultry Supplies on Time on orders of $10 or More. Pay by the Month. See Back Cover.**

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SPRING BLOOMING FLOWERS

For Planting this Fall

Or See Wards Last Spring Catalog for more flowers, trees and shrubs for fall planting. YOU CAN ORDER UNTIL DEC. 1st AT NO INCREASE IN PRICES



Oriental Poppies—Hardy Varieties

Their dazzling beauty is unsurpassed in the flower world! Poppies are exceptionally easy to grow, but *must* be planted in fall to get the full effect of their brilliant colors and immense size. Plant them in perennial borders and among evergreen and shrubs for early spring beauty. Wards hardy varieties are shipped direct from the nursery starting in September. *Postpaid. Not shipped after Nov. 15th, or in Spring.*

Low As **39c** Ea. Lots of 2

1941's Outstanding Poppy—"Grand Prize"

Ⓐ Without doubt, one of the largest and best Red Poppies recently introduced. Its blooms actually grow 9 to 11 inches across, radiant with fiery red, magnificent color. Has a vigorous, hardy growth. **287 A 23160**—Each.....79c; 3 for.....$1.98

Exhibition Poppies—Blaze of Glory for Spring

Red Flame—Bright red, 8 to 10-in. blooms that grow on tall, stiff stems. Good for arrangements.

Jeannie Mawson—A delicate geranium pink color. Blooms usually 6 to 8 in. across. 30-in. stems.

Welcome—Rich, deep, red, offset by the dark green foliage. Flowers 8 to 10 in. across. 40-in. stems.

287 A 23152—State variety. 2 for..78c; 6 for $1.98

287 A 23159—Exhibition Poppy Garden. One each of the three varieties above, plus one Grand Prize Poppy. Varieties labeled. All 4, a $1.96 value, for **$1.68**

287 A 23199—Unnamed Seedlings. Strong seedlings of Red Oriental Poppies, sure to grow and bloom next spring. 4 for.....69c; 10 for.....$1.59

All Wards Nursery Stock and Bulbs are Shipped Direct from Nursery at Proper Planting Time

Peonies for Fall Planting

Order now—plant this fall—mature plants produce up to 24 blooms! Few flowers give so much pleasure. Wards show Am. Peony Society ratings—10.00 is tops. Healthy, 3-5 eye divisions. Shipped Sept. 10 to Dec. 15. *Postpaid*

Low As **59c** Ea.

Prize Winning Peonies—Finest Blooms

Ⓑ **287 A 32247—Louis Bigot.** 9.1. Bengal rose, fringed petals, flushing salmon pink. Ea..79c

Ⓒ **287 A 32248—Jules Dessert.** 9.4. Creamy white, flowers on long, stiff stems. Each..79c

Ⓓ **287 A 32250—Longfellow.** 9.0. One of the highest rated Red Peonies! Each.....79c

287 A 32251—Prize Winning Peony Garden. One of each variety above. All 3 for.....$2.29

Favorite Peony Varieties

La Perle—8.5. Pink buds that open to creamy white petals, flecked with crimson. Mid-season.

Karl Rosefield—8.8. Grows to a 3-ft. ball of fire! Intense red—brilliance that does not fade.

Sarah Bernhardt—9.0. A rare shade of soft, apple blossom pink, with silver tipped petals.

Francois Ortegat—6.7 Deep crimson, with brilliant golden yellow anthers. Semi-rose type.

287 A 32245—State variety. 2 for $1.18; 6 for $3.29

287 A 32246—Favorite Peony Garden. One of each Favorite variety, a $2.36 value. 4 for..$1.98

287 A 32252—Fancier's Peony Garden. One each of all 7 varieties, a $4.73 value. 7 for..$3.98

287 A 32237—Color Collection. 2 Red, 1 Pink, 1 White. Labeled for color only. 4 for....$1.19

Hardy Lily

This is the favorite variety of all Lilies — surprisingly hardy and easy to grow. Blooms for years, getting bigger every year! *Postpaid*, about Sept. 10.

Low As **19c** Ea. Lots of 3

Ⓕ **Regal Lily**—Produces 8 to 20 white blooms, soft yellow throat, pink shading on outside. Grow 3 to 4 ft. high. Blooms next June if planted this fall. The Regal is truly what the name implies in beauty and adaptability. It is of the trumpet group and is fragrant. This lily will grow in practically all climates, is very hardy, and is one of the most widely grown and best known lily of today. *Not Shipped after Dec. 15.*

287 A 32284—5-6-in. size. 3 for..65c; 8 for....$1.60

287 A 32288—4-5-in. size. 3 for..57c; 8 for....$1.35

Daffodils . . . or Narcissus

No garden is complete without these sunny yellow flowers to greet spring! They require so little care—just plant Wards bulbs this fall and they'll bloom next year and for years to come. These are top quality, large size round bulbs of extra hardy, easily grown varieties. *Shipped Postpaid*, direct from the nursery, starting about Sept. 10. *Not shipped after Dec. 15.*

Low As **14c** Ea. Lots of 3

Ⓖ **287 A 13305—Van Sion.** The best double Daffodil. Bright sunny yellow, sweetly scented. 3 for.....42c; 12 for.....$1.49

Ⓗ **287 A 13300—King Alfred.** The King of them all—in size, in perfect form! Brilliant golden yellow blooms often 3 in. across, with large, cup-shaped trumpets. 3 for....59c; 12 for..$1.98

287 A 13301—Spring Glory. Beautiful chrome yellow trumpet, on creamy white petals. 3 for..39c; 12 for...$1.39

287 A 13346—Daffodil Garden. Three of each variety above. A $1.40 value. All 9 for.....$1.29

287 A 13347—Mixed Daffodils. Colorful, prolific varieties specially good for naturalizing. Many large trumpet types included. 10 for..89c; 25 for.....$1.98

Paper White Narciss

Ⓛ **Complete Window Garden.** Paper White Narcissus bulbs, packed with growing material in a Green fiber box. Just add water—these healthy bulbs bloom in clust of fragrant blossoms. Re about Sept. 15th. *Not Post*

587 A 10860—6 bulbs in box. Ship. wt. 3 lbs.....

587 A 10861—10 bulbs in in. box. Ship. wt. 4 lbs.....

Paper White Narcissus Or Top size, first quality bulbs sure to bloom and fill your ho with flowers. For a successi bloom from Christmas to E ter, start a new lot every t weeks from Oct. 1 to Dec. *Not shipped after Dec. 15.*

287 A 13450—*Postpaid.* 6 bulbs....42c; 15 bulbs..89c

Ⓙ **587 A 11915—Fiber for Growing Bulbs.** 1-lb. pkg. Ship. wt. 1 lb. 2 oz..22c

Ⓚ **587 A 11910—Pearl Chips.** Brightly colored, 2-lb. pkg. Wt. 2 lbs. 3 oz....22c

Wards Nursery Stock Is Backed By 30-Day Growth Warranty—fully explained in last Spring Catalog. On fall planted stock, write before May 1st. for adjustments.

PLANT LAWN SEED THIS FALL

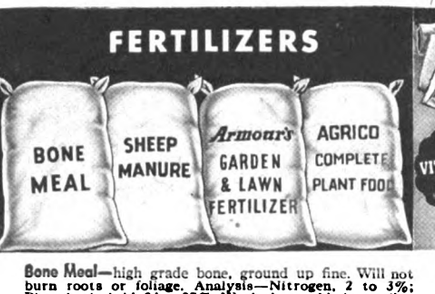


45c Lb. **Supreme Quality**

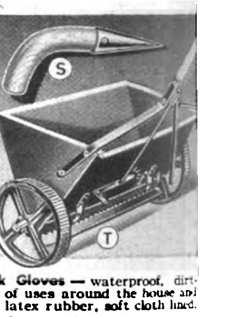
For *permanent* lawns—thick, luxuriant, bright green year after year! Extra durable because it has over 50% Kentucky Blue Grass—more than 3½ million seeds per pound, that withstand summer drought and winter freeze. Only highest quality select seeds, with Creeping Bent for soft, velvety texture. *Order from table below.*



FERTILIZERS







Read What U. S. Gov't. Recommends for Lawns—

"It is regrettable that home owners do not take much interest in starting a lawn in the fall," as stated in U. S. Department of Agriculture in Bulletin No. 1677. "Because many lawns are started in the spring, a high percentage of failures results."

Fall planted lawns grow better because they get *started right*. The seeds germinate in warm, moist soil, free from the choking competition of weeds, and send down long, strong roots to be nourished by winter snows and rains. When spring comes the root system is already well established—warm sunshine brings a thick, rich green turf *months ahead* of spring-planted lawns. Any thin spots you may have missed in planting are easily detected and re-seeded, giving you summer-long use and enjoyment of the grass. Wards have a special mixture for every type of lawn—all high-est quality seed that is high germinating and thoroughly cleaned for weed freedom. Plant between Aug. 15 and Oct. 15 according to your location. Include several pounds in your Time Payment Order—only $2 down on a $10 to $14 order. See Inside Back Cover for details. Ship. wts.: 1 lb.—1 lb. 4 oz.; 3 lbs., 3 lbs. 4 oz.; 5 lbs., 5 lbs. 4 oz.; 25 lbs., 26 lbs. *Not prepaid.*

State quality wanted. Not Prepaid	1 lb.	3 lbs.	5 lbs.	25 lbs.
87A12454—Supreme Quality. Makes a long-lasting turf—read description above.	45c	$1.32	$2.15	$10.50
87 A 12450—Select Quality. For average lawns—over ½ Kentucky Blue Grass	35c	99c	1.60	7.75
87 A 12457—Standard Quality. For quick, all-season lawns at lowest cost	25c	72c	1.15	5.50
87 A 12482—Shady Lawn Mixture. For lawns with less than 6 hours of sun a day	58c	$1.69	2.75	13.00
87 A 12467—Kentucky Blue Grass. Withstands winter freeze and summer drought	38c	1.10	1.79	8.75
87 A 12479—Astoria Bent. For thick, velvety turf—both creeping roots and tops	98c	2.89	4.79	....

Scotts Lawn Seed **59c** Lb. 5-Lb. Bag

Nationally advertised—contains expensive perennial grasses that withstand hot, dry summers, cold-est winters. 4 lbs. per 1000 sq. ft.—half as much for old lawns. **State quantity.** *Shipped Prepaid.*

87 A 12490—
3 lbs.....$1.85
5 lbs.....2.95

487 A 12490—
25 lbs.....$13.75

Scotts Turf Builder Puts color and life in lawns. 10 lbs. to 1000 sq. ft. **State quantity.** *Prepaid.*

487 A 12495—
10 lbs.....$1.25
25 lbs.....2.25
50 lbs.....3.75

187 A 12495—
100 lbs.....$6.50

Bone Meal—high grade bone, ground up fine. Will not burn roots or foliage. Analysis—Nitrogen, 2 to 3%; Phosphoric Acid, 24 to 27%. Work thoroughly into soil—for lawns 4 to 5 lbs. per 100 sq. ft. *Not Prepaid.*

87 A 12608— 5-lb. canister. Wt. 5 lbs. 8 oz.... 35c
487 A 12605— 25-lb. bag. Ship. wt. 25 lbs.....98c
487 A 12606— 50-lb. bag. Ship. wt. 50 lbs.....$1.85
187 A 12607—100-lb. bag. Ship. wt. 100 lbs..... 3.25

Sheep Manure—thoroughly kiln dried and heat treated to destroy all weed seeds and disease germs. Nitrogen, 2%; available Phosphoric Acid, 1%; Potash, 2%. Apply 10 lbs. per 100 square feet. *Not Prepaid.*

87 A 12604— 5-lb. package Wt. 5 lbs. 8 oz.... 25c
487 A 12601— 25-lb. bag. Ship. wt. 25 lbs.....65c
487 A 12602— 50-lb. bag. Ship. wt. 50 lbs.....$1.19
187 A 12603—100-lb. bag. Ship. wt. 100 lbs..... 2.15

Armour's Plant Food—nationally advertised, contains all the necessary food elements. Economical—4 lbs. will fertilize 100 sq. ft. of lawn. Best applied with Fertilizer Spreader at right. *Not Prepaid.*

87 A 12612— 5-lb. cannister. Wt. 5 lbs. 10 oz.. 30c
487 A 12609— 25-lb. bag. Ship. wt. 25 lbs.....92c
487 A 12610— 50-lb. bag. Ship. wt. 50 lbs.....$1.75
187 A 12611—100-lb. bag. Ship. wt. 100 lbs..... 2.89

Agrico—famous Plant Food for enriching soil, producing thick, luxuriant lawns. Apply 4 lbs. per 100 sq. ft. of lawn. Use Fertilizer Spreader at right. *Not Prepaid.*

87 A 12655— 5-lb. carton.....45c
487 A 12656— 25-lb. bag.....$1.50
487 A 12657— 50-lb. bag..... 2.50
187 A 12658—100-lb. bag..... 4.00

House and Garden Work Gloves—waterproof, dirt-proof, snagproof. Dozens of uses around the house and garden. Made of durable latex rubber, soft cloth lined.

Ⓜ **87 A 11907—Men's Gloves.** Knit wrist, brown Suede finish. Wt. 5 oz. Pair..... 35c

Ⓟ **87 A 11906—Men's Gloves.** Gauntlet style. Smooth, black finish. Wt. 8 oz. Pair..... 39c

87 A 11905—Women's Gloves. Green, gauntlet style. Lightweight. Small, medium or large—**state size wanted.** Ship. wt. 5 oz. Pair..... 29c

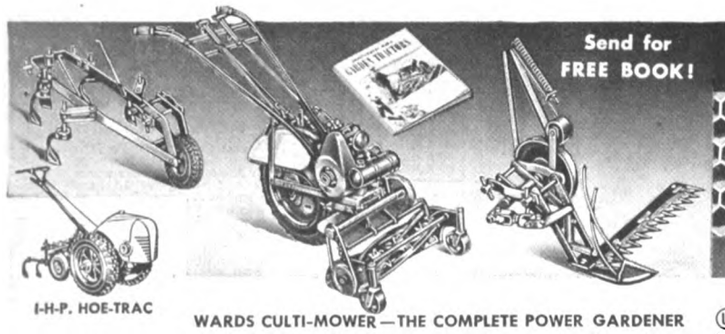
Ⓝ **87 A 11908—Women's "Swaggerette" Gloves.** Green, gauntlet style. Small, medium or large—**state size.** Ship. wt. 6 oz. Pair..... 49c

Ⓡ **Thompson's Vitamin B-1.** Amazing things can happen when you feed plants with Vitamin B-1! California scientists grew giant daffodils, roses with it. Try it yourself—get larger, healthier plants indoors and outdoors—reduce root shock during transplanting.

87 A 12632—Makes 200 gallons. *Postpaid*..... 25c
87 A 12633—Makes 2000 gallons. *Postpaid*..... $1.00

Ⓢ **Dibble**—for Bulbs, Plants, Seedlings. Use for planting and transplanting—prevents air pockets around roots. Wood handle, steel point, 10 in. long. **87 A 11904**—Shipping weight 8 oz. Each..... 75c

Ⓣ **Spreader**—for Fertilizers and Lawn Seed. Distributes plant food, lawn seed, lime, sand, top dressing etc. Indicator shows rate of spread from 2 to 10 lbs. per 100 sq. ft. Force feed; control on handle. Hopper made of galvanized steel with wood ends; 18 by 12½ by 9 in. deep. Holds approximately 40 lbs. of fertilizer. **487 A 847**—Ship. wt. 19 lbs. *Mailable*..... $4.98



I-H-P. HOE-TRAC

WARDS CULTI-MOWER—THE COMPLETE POWER GARDENER

Mows Lawns, Cuts Hay—Cultivates

As a Cultivator **$8** A MONTH On Time Payments

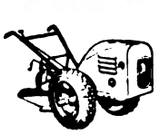
Actually *three* machines in one—a Lawn Mower, a Cultivator, a Hay and Weed Cutter! Elsewhere you'd buy these machines separately—Culti-Mower gives you equal performance yet costs $150 to $200 less! Has plenty of power from Wards Air Cooled Engine, driving the 20-inch diameter, 4-inch Power Grip Tire on the disc wheel with machine-cut gears. Only two control handles—as easy to use as a wheelbarrow. One-minute hitch connects the attachments to tractor in a jiffy. Economical to operate—runs 5 hours on one quart of gasoline.

Lawn Mower Attachment—regular heavy duty, 19-in. mower with 5-blade Timken bearing reel and swivel guide wheels. Blades are power driven, and clip every ⅜ in. of travel instead of the standard 1¼ to 1½ in. Fully described and listed in Free Garden Tractor Catalog.

Cutter Bar Attachment—24-inch, uses regular 2-in. farm mower cutters. Mounts at left front of tractor. Cuts heaviest grass, weeds and hay—mows 4 acres a day. Order from Garden Tractor Catalog.

Cultivator Attachment—mounts completely around wheel, with rear tool centered to break out wheel track. Front tools mount on expanding arms, adj. for 10 to 20-in. rows. Lift lever for transporting. With five 1¼-in. duck foot cultivator teeth. Order from Garden Tractor Catalog.

Read about Wards full line of Garden Tractors—with plows, cultivators, seeders—powered by Wards 1, 3 and 5-H.P. engines. Send for Free Garden Tractor Catalog—WRITE FOR YOUR COPY TODAY!



3-H.P. PLOW-TRAC



5-H.P. PLOW-TRAC

1136 WARDS BA

FIRST QUALITY BEEKEEPING EQUIPMENT



Beeswax Comb Foundation

Ⓤ Made from pure domestic Beeswax, sweet and clean—the finest money can buy. All sheets are full size. Not sold in less than 1-lb. lots.

Medium Brood, Not Wired. For brood frames. 7⅛ x16¾ in. 7 to 8 sheets per lb. Ship. wt. 2, 7 lbs.

87 A 5728—1 pound..... 64c
87 A 5729—5 pounds.....$2.95

Thin Super, Not Wired. For shallow extracting frames and sections. Size 3⅛ by 15¾ in. About 28 sheets per pound. Ship. wts. 2 lbs., 7 lbs.

87 A 5732—1 pound..... 68c
87 A 5733—5 pounds.....$3.10

Scalloped Beeway Sections

Ⓥ It takes more than 10 lbs. to pull Wards sections apart. Clean-cut, tightly fitted V-grooves of second growth, clear White Basswood, ⅛ in. thick, thoroughly seasoned and polished on both sides. No. 1 quality sections—size 4¼ by 4¼ by 1⅜ in.

587 A 5738—100 sections. Shipping weight 7 lbs..... $1.35
487 A 5739—500 sections. Shipping weight 31 lbs.....$5.98



Honey Extractors

Ⓦ **Two Frame.** For the small beekeeper. Handles 60 combs per hour. Crank operates from side—mounted ball bearing reel. Smooth running gears, adjustable flow honey gate. 9⅝ by 16-in. pockets—for standard frames. Only $2 Down, see Back Cover. Wt. 35 lbs. *Mailable.*
487 A 5791.....$13.45

Ⓧ **Four Frame.** Extracts 70 to 75 combs per hour—also dries cappings. Ball bearing reel; side crank. Basket reel is galv. wire mesh with perforated steel bottom. Top lifts off by loosening two wing nuts—leaves reel open so capping can be poured in and well-dried dry. 9⅝ by 16-in. pockets. For standard frames. See Terms, Inside Back Cover. Ship. wt. 48 lbs. *Not Mailable.*
187 A 5799.....$15.95



Honey Containers

Ⓨ **Comb Honey Window Cartons**—Blue and yellow cardboard, cellophane window. Size 4¼ by 4¼ by 1⅜ in. Fits standard section. Wt. per 100 6 lbs. 4 oz.
87 A 5651—100 Cartons for..... 99c
500 Cartons..$4.85; 1000 Cartons..$9.10

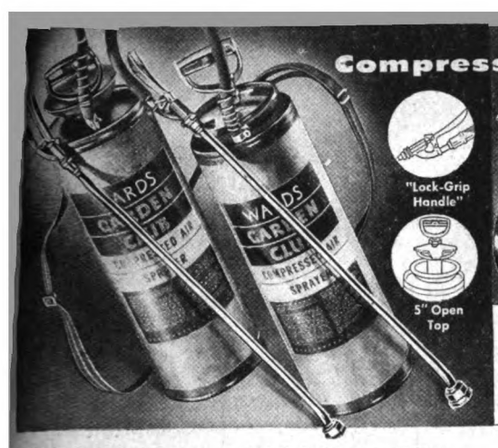
Ⓩ **Cellophane Honey Wrappers**—Blue and yellow pictured. 6¾x13¼ in. Fits std. section. Wt. 100 sheets, 12 oz.
87 A 5650—100 Sheets for..... 69c
500 Sheets..$3.35; 1000 Sheets..$6.19

Ⓐ **Honey Cans and Pails**—The best packages for selling honey in quantities. Tin construction. Friction top—won't leak. Strong wire handle on 5 and 10-lb. pails.
487 A 5765—2½-lb. cans. Case of 100. Ship. wt. 31 lbs. *Mailable*..... $6.45
187 A 5765—5-lb. pails. Case of 50. Ship. wt. 30 lbs. *Not Mailable*..... 4.75
187 A 5767—10-lb. pails. Case of 50. Ship. wt. 47 lbs. *Not Mailable*.... 6.75

ⒷⒷ **Glass Honey Jars**—Crystal clear glass with leak-proof, lined caps. *Mailable.* Ship. wts. 11, 17, and 14 lbs
587 A 5696—8-oz. jars. Case of 24.. 99c
487 A 5697—1-lb. jars. Case of 24.. $1.35
587 A 5698—2-lb. jars. Case of 12.. 85c

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Compressed Air Sprayers





3½-Gallon Funnel Top — $3.25

- **Pumps up to 60 lbs.**
- **1½ Gals. per Charge.**

For Spraying—disinfecting, whitewashing. "Zinc-Grip" galvanized steel tank is strongly built—all seams riveted and soldered. Easy to fill. Powerful 1¾-in. diameter seamless brass pump. Complete with 2-ft. curved brass extension, automatic shut-off brass nozzle, 18 in. of ⅜-in. non-kink hose and guard, shoulder strap. **Shipped from** Baltimore, Albany or Pittsburgh.

P587 A 6025—Ship. wt. 9 lbs. Each..... $3.25

3½-Gal. Open Top Sprayer — $4.39

- **Easy to Fill—Easy to Clean.**
- **New 4 Prong Top Seals Tight.**

Armco Zinc-Grip Steel Tank—the special galvanizing process that prevents rust and corrosion much longer than ordinary methods. Tested to 120 lbs.—twice normal working pressure.

5-in. Open Top—you can reach inside to clean tank thoroughly.

Loc-Grip Nozzle—locks for spraying, doesn't tire hand. 1¾-in. brass pump sprays 1½ gals. per charge. 2-ft. brass extension, 22 in. of ⅜-in. hose with wire loop guard. Adjustable shoulder strap. **Shipped from** Baltimore, Albany or Pittsburgh.

P587 A 6013—Wt. 11 lbs...$4.39

New Lay-Z-Sprayer —5-Gallon Capacity — $7.25

- **Tank Lays on Ground—Spray a 24 by 24-ft. area without moving Sprayer.**

Sprays longer, sprays farther—has features found on no other compressed air sprayer! 2-ply, extra long 6-ft. hose—carry the hose instead of the tank! Pressure gauge on tank. Adjustable nozzle sprays fine mist or 30-foot stream. Large open mouth with funnel top and 4-prong pump head (see inset). Loc-grip trigger nozzle locks when pressed down. Safety air release lets air out slowly before pump can be removed.

Heavy Ga. Armco Zinc Grip Steel Tank—24-ga. body, 14-ga. bottom. 8¾-in. diam., 20½-in. long with carrying handle at point of balance. Hose screws into end—won't pull out. Solid brass pump is 14 in. long, 1¾-in. diam., with brass valve.

487 A 6098—Ship. wt. 20 lbs. Each...$7.25

Kill Weeds and Germs with Fire



Destroys Green Weeds. Prevents Future Growth.

Thaws Stock Tanks, Frozen Pipes; Melts Ice from Sidewalks and Machinery.

2-Gallon Size — $9.95

Operates exactly the same as large Flame Thrower at right but with smaller, 2-gallon tank. Throws 20-in. flame, 2 in. wide. Welded tank stands 115 lbs. pressure—is made of 20-ga. copper-bearing steel. Pressure gauge on handle. 5 ft. of hose, carrying strap. Instructions. Ship. wt. 16 lbs.

487 A 6009—Each.. $9.95

Wards Flame Thrower — $13.75

$2 Down, $2 Month See Back Cover

- **Works Like a Blow Torch—30-in. Flame Disinfects up to 4 Ft. Ahead of Burner!**
- **Low Operating Cost—Burns 94% Air to 6% Fuel Oil (38-40) or Kerosene, 1 gal. per hr.**

Cleans out irrigation ditches, disinfects poultry houses, clears fences of weeds. Burns stumps, heats water. Throws powerful, windproof, smokeless flame 3 by 30 inches long; 2000° Fahrenheit.

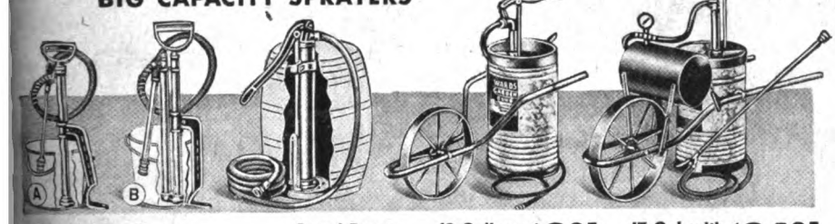
4-Gal. 20-Gauge Welded Steel Tank—45-lb. working pressure—stands over 115 lbs. pressure.

Heavy Screw Type 1¾-in. Brass Pump—has safety air release; pressure is released slowly before pump can be removed.

Easy to Handle—convenient carrying strap, self-balancing wood handle. With pressure ga. mounted on tank, 7 ft. of ⅜-in 2-ply, oil resisting hose, bronze needle control valve. Instructions.

487 A 6005—Wt. 17 lbs....$13.75

BIG CAPACITY SPRAYERS





Bucket Pumps

30-in. hose with ⅜-in. diam. non-clog nozzles 12-in. brass extensions. Ht. 24 in. Working parts brass or bronze. Non-kink hose guards. Bucket not included.

(A) Intermittent. Sprays on up and down pump stroke—150 lbs. pressure.

87 A 6000—Wt. 4 lbs. 8 oz...$2.25

(B) **Continuous.** 150 lbs. pressure for maintaining constant spray. Pumps on down stroke.

87 A 6001—Wt. 6 lbs.... $3.25

Use All Wards Sprayers (except small hand sprayers) for whitewashing, cold water painting, etc.

Barrel Pump

Continuous spray. 1⅞ x 30½-in. air chamber holds 200 lbs. pressure. Fits average size barrel (not included). Working parts brass or bronze. Seamless brass pump 1¾ by 5 in. Dasher type agitator. With 12½ ft. of ½-in. hose, adj. nozzle.

387 A 6030—Wt. 27 lbs...$7.95

487A6026—Without hose or nozzle. Wt. 24 lbs..$6.45

12-Gallon Capacity — $9.95

Seamless brass pump 1¼-in. diam. by 6½ in. long—will not rust or corrode. Dasher type metal agitator, brass ball valves and seats. Galv. ribbed steel tank has reinforced top and soldered seams. One-piece, 1-in. steel pipe frame. 15½-in. wheel. With 8 ft. of ⅜-in. hose and non-clog brass nozzle for coarse or fine spray. Wt. 34 lbs. *Not Mailable.*

187A6076—Ea..$9.95

17-Gal. with Press. Tank — $24.95 Cash

$3 Dn., $3.50 Mo. See Back Cover

Sprays without continuous pumping! 6-gal. tank with gauge holds 250 lbs. air pressure. Seamless brass pump is 1¾ by 5 in. long. Double dasher agitator, brass ball valves and seats. Galv. ribbed steel tank swings in 1-in. pipe frame, 19-in. wheel. Total ht. 37 in. With 12 ft. of ½-in. hose and 3-ft. brass extension with automatic shut-off nozzle. Ship. wt. 89 lbs. *Not Mailable.*

187 A 6072—Each $24.95

Boston Sprayer Hose

Tough rubber coating reinforced by heavy cord—defies rot, wear, chemicals. Tested to 50% overload.

(C) **Triple Braid Hose**—600 lbs. tested—for large power sprayers.

(D) **Double Braid Hose**—225 lbs. pressure tested—for wheelbarrow, barrel and small power sprayers.

(E) **Single Braid**—75 lbs. tested—for comp. air, bucket pump sprayers.

Article Number	Inside Diam.	Braid	Wt. per ft.	Price Ft.
687 A 6104	⅜-in.	1	3 oz.	6c
687 A 6123	⅜-in.	2	4 oz.	7½c
687 A 6106	½-in.	2	5 oz.	8c
687 A 6109	½-in.	3	7 oz.	16½c

Dependable Hand Sprayers

(F) **1-Quart Continuous.** Tin tank—durable brass valve and nozzle. Tank holds pressure from down stroke, gives a fine, steady mist. Pump is 1½ in. diam. by 12 in. long. A real value for this low price. Wt. 2 lbs.

87 A 6015 Each.....59c

(G) **Finest 1-Qt. Continuous.** Seamless brass pump, solid copper tank won't rust or corrode. Fine, continuous spray—tank holds pressure from down stroke, gives 1½-in. diam. by 15 in. long. Twin nozzles for straight or angle spray. Wt. 2 lbs.

87 A 6029 Each.....$1.95

(H) **3-Qt. Continuous.** Holds more—pumps easily. For insecticides, disinfecting, etc. Galv. tank holds pressure from down stroke. Brass valve, twin nozzle; for straight or angle spray. Pump is 1½-in. diam. by 14 in. long. Wt. 3 lbs.

87 A 6018 Each.....$1.15



Respirator

Protects lungs from dust and dirt. White elastic straps are easily adjustable ... assure snug fit. Strong, white rubber body of respirator cups over nose and mouth. Sponge filters air.

87 A 6136—Shipping weight 10 oz. Each.....85c

Clear Vision Spray Helmet

Gives complete protection to your head and shoulders while you're spraying paints, insecticides, etc. Saves clothes—keeps hair clean. Made of strong waterproofed duck fabric. Has celluloid window—air flap. Snap fasteners make it easy to put on and remove. Fits any size head.

87 A 6110—Ship. wt. 1 lb.... $1.79

Threshing or Spray Mask

Protects eyes, nose, mouth from dust and sprays. Use while threshing, plant dusting, spraying, etc. Glass goggles. Leather respirator. 2 screens; 12 filters. Shipping weight 10 oz.

87 A 6134—Each.....98c

87A6135—4 screens; 24 filters. Wt. 2 oz. 10c

Willson Respirator

Filters dusts and pollens out of air, giving relief from symptoms of hay fever and irritations caused by dusty work. Washable white rubber face piece, adjustable straps. With 25 extra filters.

87 A 6166—Wt. 10 oz.....$1.49

87 A 6167—Box of 25 filters. Ship. wt. 4 oz.....25c

Dustfoe Respirator

Approved by the United States Bureau of Mines. Positive acting exhaling valve. Sponge rubber face cushion. Aluminum face piece, filter cover. Cellulose acetate face shield, rubber bound. 5 filters. Ship. wt. 1 lb. 6 oz.

87 A 6008—Ea.. $2.85

87 A 6007—As above but no face shield. Wt. 1¼ lbs.....$2.35

87 A 6022—Box of 5 filters. Wt. 6 oz....49c

Biotol Sardine Oil — $2.65 gal.

Reduce chicken mortality—promote livestock's health! Guaranteed to contain at least 85 Vitamin D units (bone-building ingredients) per gram. Feed to calves, hogs, poultry, pets—1 pt. to 100 lbs feed. *Mailable.*

487 A 3195—1 gal. Wt. 10 lbs.....$2.65

487 A 3196—5 gal. Wt. 45 lbs.....$10.50

Rex Wheat Germ Oil — 95c 4-oz. Can

Rich in Vitamin E—the vitamin that combats sterility, irregular breeding, poor growth. Where Vitamin E is lacking, Rex Wheat Germ Oil helps to increase size of litters—improves hatchability in eggs. For all stock, fowls. Ship. wts.: 10 oz.; 1 lb. 10 oz. and 3 lbs.

87 A 3102—4 Oz...95c
87 A 3103—1 Pt.$3.69
87 A 3104—1 Qt. 5.98

Nopco—XX Fortified Cod Liver Oil — $1.49 2-lb. Can

Nearly 5 times as potent in Vitamin D as standard cod liver oil. A 2-lb. can is sufficient for 100 hens for 1½ months. Feed it to poultry, hogs, calves, pets, etc., mixed with their regular feed. Contains 3000 units of Vitamin A and 400 units of Vitamin D per gram. Instructions for mixing on can.

87 A 3177—2-lb. can. Shipping weight 3 lbs.....$1.49

87 A 3178—5-lb. can. Shipping weight 7 lbs.....3.49

487 A 3179—38-lb. can. Shipping weight 41 lbs.....23.50

Put Wards Time Payment Plan to work for you—Buy Now! Send only a few dollars Down; the balance in convenient Monthly Payments. See Page 1183 for details.

PRATTS POULTRY REMEDIES





Poultry Regulator

Helps hens lay. Supplies tonic, mineral and vegetable ingredients. Mix with mash. 3¾ lbs. regulates 50 hens for 30 days. Ship. wts. 5 lbs.; 14 lbs.; 30 lbs.

53 A 8804—3¾ LBS. 41c
553 A 8814—12½ LBS.....$1.39
453 A 8809—25 LBS..... 2.79

Pratts Split Action N-K Capsules

These Capsules contain Nicotine and Kamala. Help eliminate large round worms. Wts. 6 oz.; 10 oz.; 6 oz.; 10 oz.

For Adult Fowls—over 18 weeks.
53 A 8802—BOX OF 50 CAPSULES....79c
53 A 8808—100 CAPSULES.....$1.39
For Chicks—10 to 18 weeks old.
53 A 8812—BOX OF 50 CAPSULES....49c
53 A 8813—100 CAPSULES.....89c

Pratts Roost Paint

Apply to roost. No need to handle fowls. While fowls sleep fumes destroy lice. Oil base prevents too rapid evaporation. Does not harm fowls. Ship. wts. 1 lb.; 1 lb. 12 oz.; 3 lbs. 2 oz.

53 A 8805—½ PINT.....79c
53 A 8810—1 PINT.....$1.39
53 A 8815—1 QUART..... 1.98

Pratts C-Ka-Gene

Attack Coccidiosis before outbreaks occur. If parasites are present chicks get a *mild, harmless attack*, then are permanently immune. Ship. wts. 2 lbs. 8 oz.; 4 lbs; 9 lbs. 8 oz.

53 A 8820—50-Chick Size.. 67c
53 A 8821—100-Chick Size.$1.09
53 A 8822—250-Chick Size. 2.49

Pratts Chick Tablets

Drinking water disinfectant. Use for first 2 weeks. Ship. wts. 4 oz.; 5 oz.

53 A 8800—30c Size Pkg. 22 TABLETS..26c
53 A 8816—60c Size Pkg. 50 TABLETS... 51c

Pratts Poultry Worm Powder

A single dose aids in eliminating large round worms. *4-oz. Package is enough to treat 100 hens.* Ship. wts. 8 oz.; 1 lb. 2 oz.

53 A 8801—75c Size, 4-oz. PACKAGE.....67c
53 A 8826—$2.50 Size, 20-oz. PKG.....$2.29

Pratts Pik-No-Mor

Check losses. Pik-No-Mor stops evils of cannibalism. Red non-poisonous paste. Antiseptic. Ship. wts. 11 oz.; 1 lb. 2 oz.

53 A 8824—25c Size. 2-oz. JAR.....21c
53 A 8825—50c Size. 5-oz. JAR.....41c

Pratts Lice Killer (Powder)

Efficient dusting powder for livestock, pets, and poultry. Easy to use. Handy can. Ship. wts. 1 lb. 6 oz.; 2 lbs. 12 oz.

53 A 8806—14-oz. CAN.....26c
53 A 8811—2-LB. CAN.....51c

Pratts Disinfectant

Germicide and dip. Won't harm animals. Ship. wts. 4 lbs. 8 oz.; 11 lbs.

53A8818 QUART.... 41c
453 A 8819—GALLON.....$1.39

Pratts Poultry Inhalant

Helps relieve coughs due to colds, minor bronchial irritations. Spray it while birds roost. Cut down your losses. Increase profits—have a healthy flock. Shipping weights 3 lbs.; 6 lbs.

53 A 8807—PINT 51c
53 A 8817—QUART..89c

INCREASE PROFITS WITH CAPONS

Capons usually retail for 5c to 10c more per pound.

Improved Stanley Caponizing Set — $4.49 Set

Every instrument scientifically shaped—accurate. Made of finest forged steel. *Triangular Jaw Forceps are curved*—do not obstruct vision when you operate. Spreader adjusts to any range of opening. Capons (castrated male chickens) make choice poultry meat. Ship. wts. 14 oz.; 2 oz.; 3 oz.; 2 oz.; 3 oz.; 4 oz.

53 A 8750—COMPLETE (all instruments listed below) WITH INSTRUCTION BOOK.....$4.49
(V) **53A8755**—CORDS, HOOKS.....27c
(W) **53A8753**—HOOK, SPOON.....79c
(X) **53A8754**—KNIFE.....49c
(Y) **53A8752**—JAW FORCEPS..$2.79
(Z) **53A8751**—SPREADER.....1.19
53 A 8748—INSTRUCTION BOOK. Ship. wt. 2 oz.....19c

Standard Quality — $2.69 Set

An efficient Set that is complete. Priced far below usual price elsewhere. Instruments made of good quality steel. Set includes: Elevator and remover, tissue forceps, spreader, knife, cords and hooks, and instructions.

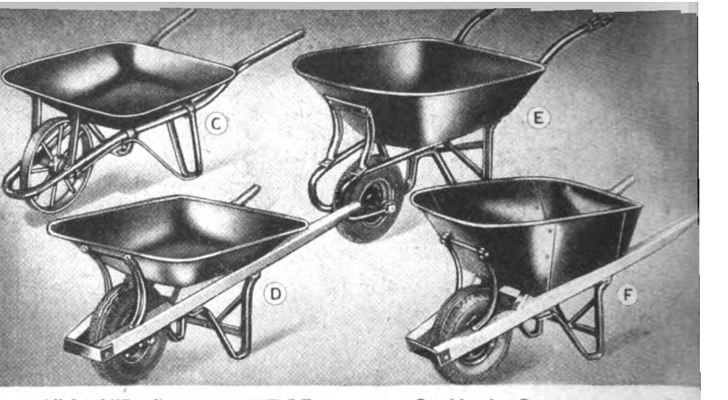
53 A 8888—SET. Wt. 8 oz. $2.69

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Less Weight on Arms! Less Strain on Back!

CENTERED WHEEL CARRIES LOAD





This Wheelbarrow Is Easier to Lift and Push — $6.25

Scientifically designed—wheel is *underneath* load—Barrow tends to balance itself. Short wheelbase makes it easier to get started—easier to turn and empty. Ball bearing disk wheel with 10 by 2.75-in. single tube pneumatic tire won't sink in sand or spongy ground, or cut up lawn. Moves quietly over sidewalks—won't damage concrete. The tire, not your wrists, absorbs shocks. All steel for maximum strength—rigidly braced—no wood to break or splinter. Tubular steel handles run directly under tray for maximum support—have comfortable rubber grips. Tray is level when barrow is standing or being wheeled—carries bigger loads without spilling. Seamless, leakproof, 16-ga. steel tray, 26 by 34 in.—rolled edge for strength. Capacity 3 cubic feet.

P184 A 5609—Ship. wt. 37 lbs. *Not Mailable*.....**$6.25**

P184 A 5610—Same as above but has 12-in. all-steel wheel. No rubber grips. *Not Mailable*. Ship. wt. 37 lbs.....**$4.25**

"P" MEANS PITTSBURGH. *"P" before Art. No. (example P184 A 5609) means that item is also shipped from Pittsburgh. Send your order to nearest Wards MailOrder House.*

General Utility Barrow — $5.50

(A) For general farm and home use. Ball Bearing steel wheel with 10 by 2.75-in. single tube pneumatic tire—pushes easily—won't sink in sand or dirt. The tire, not your wrists, absorbs shocks. Hardwood handles—smooth grips. Hardwood risers help keep tray level. 1-pc. 26 by 34-in. 18-ga. leakproof seamless steel tray. Rolled edge for strength. 3 cu. ft. capacity.

P184 A 5602—Wt. 44 lbs. *Not Mailable*.**$5.50**

P184 A 5616—Same as above but with 15-in. diam. 1¼-in. tread all-steel wheel. Ship. wt. 44 lbs. *Not Mailable*.....**$2.95**

Garden Wheelbarrow — $6.45

(B) Ideal for hauling dirt, rocks, grass, or long objects—sides easily removable. Ball bearing steel wheel with pneumatic single tube 10 by 2.75-in. rubber tire. Easier to push, quicker, won't cut up your lawn. Well-braced hardwood frame and legs. Tray is 18 in. wide at wheel, 10 in. deep and 25¾ in. long. Weather-resisting painted finish.

P184A5613—Wt. 43 lbs. *Not Mailable*. **$6.45**

P184 A 5600—Same as above, but with 18-in. diam., 1¼-in. tread all-steel wheel. Ship. wt. 43 lbs. *Not Mailable*.....**$3.69**

All Steel Wheelbarrow — $5.45 3 Cu. Ft.

(C) Conventional design. Exceptionally tough and rugged—for hard service over many years. All steel—no wood to crack or break. Tray is stamped from 1 piece of 16-ga. steel—seamless, leakproof. Steel rod in rim of tray adds strength. Tubular steel handles. Firmly braced steel legs. Dump guard. All steel wheel is 15-in. diam., 1¼-in. tread. *Not Mailable*.

P184 A 5617—3 cubic ft. Tray size 33 by 29 in. Ship. wt. 69 lbs.....**$5.45**

P184 A 5618—4 cubic ft. Tray size 37 by 29 in. Ship. wt. 74 lbs.....**$6.55**

Contractors' Barrow — $11.95 Cash, $2 a Month

(D) Heavy duty, general purpose. Seamless, 36 by 29-in., 16-ga. steel tray has rolled edge—mounted for level wheeling. 16 by 4-in. pneumatic tire with inner tube, on ball bearing steel wheel. Braced channel iron legs, malleable iron shoes. Dump guard. Hardwood handles and risers. Heaped capacity 4 cu. ft. Level capacity 2½ cu. ft. *Not Mailable*. Terms: See Back Cover.

P184 A 5603—Ship. wt. 78 lbs.....**$11.95**

P184 A 5615—Same as above but with 15-in. diam. all-steel wheel. Ship. wt. 78 lbs....**$5.99**

Combination Barrow — $11.75 Cash, $2 a Month

(E) Scientifically designed with wheel *underneath* load—puts less weight on arms . . . less strain on back! Deep, round nose tray for both concrete and heavy duty contracting work. Short wheelbase makes it easy to handle a heavy load—easier to turn and empty. All steel for strength. Ball bearing wheel has 16-in. 3½-in. pneumatic tire with inner tube. 1-in. tubular steel handles have rubber handle grips. Seamless tray 1 pc. 15-ga. steel, 35½ by 27½ in.—steel reinforcing rod in edge. Channel iron legs; steel shoes. Heaped capacity 4 cu. ft.—level capacity 3 cu. ft.

P184 A 5614—Ship. wt. 60 lbs. *Not Mailable*. **$11.75**

Concrete Wheelbarrow — $14.75 Cash, $2.50 a Month

(F) Ideal for heavy duty concrete work. Strongly riveted, 15-ga. steel tray, 37 by 25 by 19½ in. deep at front. Built extra deep to hold more concrete. Heaped capacity 4½ cubic ft.; level capacity 3¾ cubic ft. Dump guard. Rigidly braced channel iron legs with malleable iron shoes. Big 16 by 4-in. pneumatic rubber tire with inner tube, on ball bearing steel wheel. Hardwood handles, smooth grips. Terms, Inside Back Cover.

P184 A 5612—Ship. wt. 83 lbs. *Not Mailable* **$14.75**

P184 A 5622—Same as above, but with 15-in. all-steel wheel. Ship. wt. 83 lbs. *Not Mailable*.....**$8.45**

Modernize Your Old Wheelbarrow With a Rubber Tired Wheel



(G) **Ball Bearing Wheel, Tire and Tube** Buy this if you want the best. 16 by 4-in. pneumatic rubber tire and tube move quietly. Axle included. Fits P184 A 5615, 5622 barrows and others with 6 to 7-in. width hubs.

P484 A 5601—Shipping weight each, 17 lbs. *Mailable*.....**$7.95**

484 A 5606—Like P484 A 5601, but fits wheelbarrows 5617 and 5618. Shipping weight each 19 lbs. Each.....**7.95**

(H) **Ball Bearing Wheel, Tire and Brackets.** Single tube 10 by 2.75-in. pneumatic rubber tire and ball bearing steel wheel with brackets. Fits wheelbarrows similar to P184 A 5600 and P184 A 5616 above.

P84 A 5607—Shipping weight 6 lbs. *Mailable*.....**$3.65**

P84 A 5608—**Pneumatic Tire Only** 10x2.75-in. lug base. Shipping weight each 3 lbs.....**1.50**

Masters' HANDI-CART Saves Work — $4.65



Tip the HANDI-CART down and you can rake leaves, earth, trash, etc. right into it. Load it with heavy barrels, boxes, trunks. Tip it back for wheeling—no lifting! Perfect balance makes handling easy. Strong construction. Supported sheet metal body; solid steel axle; channel steel handle with wood crosspiece. 10¼-in. diam. disk wheels; 1-in. quiet, solid rubber tires. Steel tray 26½ by 16 by 12½ in. deep. 2-cu. ft. capacity.

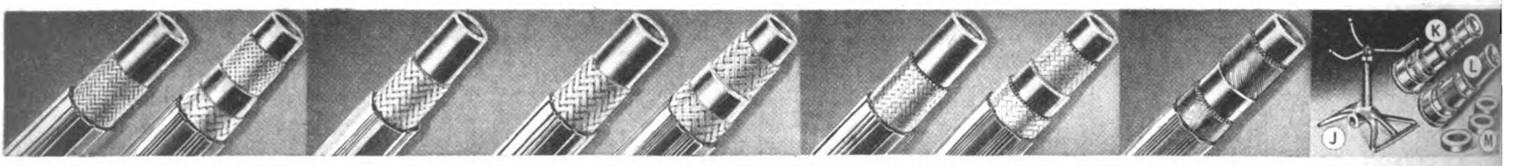
484 A 5621—Shipping weight 25 lbs. *Mailable*.....**$4.65**

All Steel Hand Truck — $3.95



Ideal for moving milk cans, up to 650-lb. oil drums, cases, barrels, etc. Valuable around a farm, gas station, etc. All steel—no wood to break or splinter. Quiet, 5 in. diam. rubber tired wheels. Strongly constructed tubular steel frame. Overall height 44 in. Width at wheels 16 in. Enamel finish. *Mailable*. Ship. wt. 16 lbs.

484 A 5611.....**$3.95**



Eclipse Quality Black Hose — $1.95 50 Ft.

P684 A 7872

Single Braid—Guar. 2 Yrs. Two layers of live rubber; one layer of braided cotton cord. Stands pressure of 400 lbs. per sq. in. All 3 layers vulcanized. Any length up to 500 feet.

P684 A 7872—⅝-in. Inside Diam. Brass couplings, rubber washers. Ship. wts. 5 oz., 7 lbs., 13 lbs. **State length.** Per Foot..5½c; 25-Foot Length **$1.00** 50-Foot Length.....**1.95**

Double Braid—Guar. 7 Years. Three layers of live rubber; two layers of braided cotton cord. Double braided—stronger than single braided hose above. Any length up to 500 feet. With brass couplings and rubber washers. **State length.**

P684 A 7867—⅝-in. Inside Diameter. Tested to 500 lbs. pressure per sq. in. Ship. wts. 7 oz., 8 lbs., and 16 lbs. Per Foot.....9c; 25-Ft. Length**$2.20** 50-Foot Length.....**4.35**

P684 A 7868—¾-in. Inside Diameter. Tested to 400 lbs. pressure per sq. in. Ship. wts. 8 oz., 9 lbs., and 18 lbs. Per Ft.....10c; 25-Ft. Length.**$2.45** 50-Foot Length.....**4.85**

684 A 7869—1-in. Heavy Duty Hose. Guaranteed 7 yrs. Tested to 400 lbs. Fits only 1-in. diam. sill cocks and couplings. Ship. wt. 8 oz. Per Foot.....17c

Special Quality Brown Single Braid—Guar. 4 Years. — $3.10 50 Ft.

P684 A 7874

Two layers of fresh live rubber; one layer, of double cotton cord. Stands presure of 450 lbs. per sq. in. Has same specifications as Hose which last year sold for at least 75c more per 50-foot length! All three layers vulcanized into one inseparable unit. Flexible—cured and compounded to resist weather-check. Any length up to 500 feet. Nickel plated brass couplings and rubber washers. **State length.**

P684 A 7874—⅝-in. Inside Diameter. Per Foot. Wt. 6 oz....7c 25-Foot Length. Ship. wt. 8 lbs.....**$1.65** 50-Foot Length. Ship. wt. 14 lbs.....**$3.10**

Lakeside Quality Red Hose — $3.95 50 Ft.

P684 A 7863

Single Braid—Guaranteed 6 Years. Two layers of live rubber; one layer of braided double cord. Stands pressure of 500 lbs. per sq. in. Double cord stronger than single braided. All 3 layers vulcanized into one unit. Any length up to 500 feet.

P684 A 7863—⅝-in. Inside Diam. With nickel plated brass couplings and rubber washers. Ship. wts. 5 oz., 8 lbs., and 15 lbs. **State length wanted.** Per Foot..8½c; 25-Ft. Length.**$1.98** 50-Foot Length.....**3.95**

Double Braid—Guaranteed 9 Years Three layers of live rubber; two layers of double braided cord. Wears longer, stands more pressure than Hose at left or above. Sold in any length up to 500 ft. With nickel plated brass couplings and washers. **State length wanted.**

P684 A 7866—⅝-in. Inside Diameter. Tested to 550 lbs. pressure per sq. in. Ship. wts. 7 oz., 9 lbs., and 17 lbs. Per Foot....10c; 25-Ft. Length..**$2.45** 50-Foot Length.....**4.85**

P684 A 7865—¾-in. Inside Diameter. Tested to 450 lbs. pressure per sq. in. Ship. wts. 8 oz., 10 lbs., 19 lbs. Per Foot....11c; 25-Ft. Length.**$2.75** 50-Foot Length.....**5.35**

Master Quality Green Hose — $4.65 50 Ft.

P684 A 7864

Single Braid—Guaranteed 8 Years. Two layers of highest quality rubber; one layer of heavy gauge, braided, double cord. Stand pressure of 600 lbs. per sq. in. All 3 layers vulcanized into one inseparable, flexible, unit. Any length up to 500 feet.

P684 A 7864—⅝-in. Inside Diam. With chromium plated cast brass couplings and rubber washers. Ship. wts. 7 oz., 8 lbs., 16 lbs. **State length wanted.** Per Foot 9½c; 25-Ft. Length...**$2.35** 50-Foot Length.....**4.65**

Double Braid—Guaranteed 12 Years! 3 layers of finest rubber; 2 layers of heavy gauge, braided, double cotton cord. Surpassed only by Master DeLuxe Hose at right. Sold in any length up to 500 ft. With chromium plated cast brass couplings and rubber washers. **State length.**

P684 A 7875—⅝-in. Inside Diameter. Tested to 800 lbs. pressure per sq. in. Ship. wts. 9 oz., 10 lbs., and 20 lbs. Per Foot...13c; 25-Ft. Length..**$3.15** 50-Foot Length.....**5.95**

P684 A 7876—¾-in. Inside Diameter. Tested to 600 lbs. pressure per sq. in. Ship. wts. 10 oz., 11 lbs., and 22 lbs. Per Foot..14c; 25-Ft. Length...**$3.45** 50-Foot Length.....**6.45**

Master DeLuxe Quality — $7.50 50 Ft.

P484 A 7877

Double Braid—Guaranteed 15 Years!

Two layers of tightly twisted cotton cords, wound spirally in alternate directions . . . increases flexibility. Each cord imbedded in rubber cushion. Seamless black inner tube—corrugated light Green cover. Chromium plated brass couplings and rubber washers. **State length wanted.**

P484 A 7877 — ⅝-in. Inside Diam. Tested to 900 lbs. per square inch. 25-Foot Length. Ship. wt. 11 lbs...**$3.95** 50-Foot Length. Ship. wt. 22 lbs...**7.50**

P484 A 7878 — ¾-in. Inside Diam. Tested to 700 lbs. per square inch. 25-Foot Length. Ship. wt. 12 lbs...**$4.95** 50-Foot Length. Ship. wt. 24 lbs...**9.50**

(J) 3-Arm Sprinkler. Covers up to 35-ft. circle. 5½-in. tubular polished brass arms. Solid brass head and bearing. Cast iron base 8½ by 7 in. About 11 in. high. Post and base enameled.

84 A 7941—Wt. 3 lbs.**85c**

(K) Wards Eclipse Nozzle. Wrought brass. Adj. waterway. Fits ½, ⅝, ¾-in. hose.

P84 A 7900—Wt. 6 oz.**19c**

(L) Lakeside Colored Nozzle. Solid cast brass with green enameled and polished brass finish—Adjusts from a fine spray to heavy stream, also complete shut-off. Full clear waterway. Fits ½, ⅝, ¾-in. hose. New steam packing eliminates leaking.

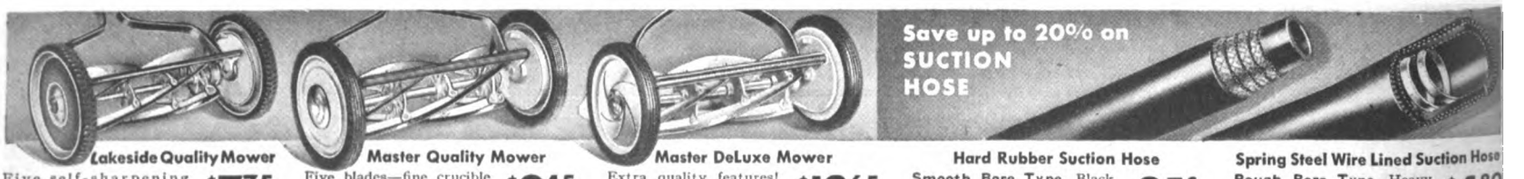
P84 A 7912—Ship. wt. 10 oz. Ea....**55c**

Rubber Hose Washers

(M) Ship. wts. 2 oz.

84A7925—For ½, ⅝, ¾-in. Per doz.....**4c**

84A7927—For all 1-inch hose. 6 for.....**5c**



Lakeside Quality Mower — $7.75 16-in.

Five self-sharpening crucible steel blades—hardened and oil tempered. 10-in. fully closed wheels have solid rubber tires. Heavy raised lip on tool steel bed knife. Precision ball bearings in cutting reel adjust automatically. Heavy cast frame. Gears fully enclosed. Maple handle and roller. Silver paint finish—Royal Blue Trim. Ship. wts. 48, 50, 52 lbs. *Mailable*.

P484 A 5666—14-in. cut.....**$7.25**

P484 A 5667—16-in. cut.....**7.75**

P484 A 5668—18-in. cut.....**8.25**

Master Quality Mower — $9.45 16-in.

Five blades—fine crucible steel—heat treated, oil tempered, self-sharpening. Heavily lipped bed knife. 10½-in. closed wheels—quiet, semi-pneumatic tires. Ball bearings 4 points. Rubber covered roller, shrub rod—maple handle. Enclosed gears. Chrome plated hub caps. Hooks for catcher. Light Green fin.; dark Green trim. Ship. wts. 56, 58, 61 lbs. *Mailable*.

P484 A 5678—16-in. cut. Cash..**$9.45**

P484 A 5679—18-in. cut. Cash..**10.45**

P484 A 5680—20-in. cut. Cash..**11.45**

Master DeLuxe Mower — $12.65 16-in. Cash, $2 a Month

Extra quality features! Tubular steel handle with rubber grips. Ball bearings at 6 points. Rubber covered roller; chromium plated hub caps and "teardrop" shrub rod. 10-in. closed wheels—quiet semi-pneumatic rubber tires. 5 self-sharpening, crucible steel blades. Hooks for grass catcher. Ivory finish; lt. Green trim. Ship. wts. 56, 58, 61 lbs. *Mailable*.

P384 A 5687—16-in. cut. Cash**$12.65**

P384 A 5688—18-in. cut. Cash **13.65**

P384 A 5689—20-in. cut. Cash **14.65**

Hard Rubber Suction Hose — 25c Ft. 1-in. Diam.

Smooth Bore Type. Black rubber tube reinforced with 4 plies of cotton rubber impregnated fabric. For water suction service—use on hand pumps, portable engines, etc. Any length up to 50 feet. **State length, diam.**

684 A 7888—1-in. Inside Diam. Ship. wt. per foot, 9 oz. Per Foot.....25c

1¼-in. Inside Diam. Ship. wt. per foot, 11 oz. Per Foot.....30c

84 A 7928—Galv. Steel Clamps for above. **State size. 1-in.** Wt. 3 oz...7c **1¼-in.** Ship. wt. 3 oz. Each.....12c

Spring Steel Wire Lined Suction Hose — $4.80 10 Ft.

Rough Bore Type. Heavy duty—use with threshers, tanks, force pumps, etc. Tough rubber outer cover protects hose. Reinforced with strong cotton fabric. Galvanized spring steel flat wire lining prevents collapsing. Inside diam. 2 in. Enlarged ends for attaching to nipples. **State length.**

484 A 7890—Ship. wt. per ft., 1 lb. 1 oz. 10-ft. Length.**$4.80** 20-ft. Length..**$9.60** 15-ft. Length. **7.20** 25-ft. Lgth...**12.00**

84 A 7928—2-in. Galv. Steel Clamps for above. Ship. wts. each 6 oz. Each..**19c**



(N) Eclipse Pruner. Natural finish tool steel blade riveted to *malleable* iron Green enameled handle. Volute spring. Hdl. Lock. Overall: 9 in.

84 A 5964—Ship. wt. 1 lb. 2 oz.. **33c**

(P) Lakeside Pruner. Tempered, highly polished alloy steel blade. Malleable iron handles. Volute spring. Ratchet lock keeps nut from moving. Black and Orange fin. Overall: 9 in.

84 A 5966 Wt. 1 lb.2oz.**65c**

Master Pruner. Forged tool steel blade, drop hook. Green enameled handles. Polished blade—wide bevel. Coil spring. Inside handle lock. Overall: 7¼ in.

84 A 5967—Wt. ea. 1 lb..**98c**

Eclipse Hedge Shears. Polished forged steel blades. Natural fin. Ash handles—enameled grips—tang driven in, riveted. 8 and 10-in. notched. Ship. wts. 1¾ lbs.; 3 lbs. 3½ lbs. **State length.**

584 A 5994—6-in. blades.....**59c**

8-in.75c 10-in.**$1.10**

(R) Buckeye Pattern Pruner. Eclipse quality. 2½-in. forged steel blade and hook. Polished blade hardened and tempered. Tangs riveted to Blue enameled ferrules—extend into polished Ash handles. Length about 25 in. Wt. 3 lbs. 4 oz.

584 A 5990...**$1.19**

(S) Calif. Pattern Pruners. Lakeside quality. 3-in. tempered, polished forged tool steel bladeandhook. Tangs riveted through Green enameled ferrules. Ash handles have special bend. Length 27 in. Wt. 3 lbs. 4 oz.

584 A 5991...**$1.98**

(T) Steel Handled Pruner. Master quality. Beveled 2⅝-in. polished blade. Hardened, tempered forged steel blade, hook, handles. Wood grips. Green enameled ferrules. Length about 28 in. Wt. 3 lbs. 8 oz.

584A5992..**$2.85**

(U) Tree Pruner—For High Work. 5½-ft. Head Section. With rope. Cuts up to 1-in. thickness. Drilled for attaching 84 A 6007 Saw listed below. *Mailable*.

484 A 6005—Ship. wt. 4 lbs. **$1.39**

5½-ft. Extension. Used with 484 A 6005 above—makes 11-ft. pruner.

484 A 6006—Ship. wt. 3 lbs..**69c**

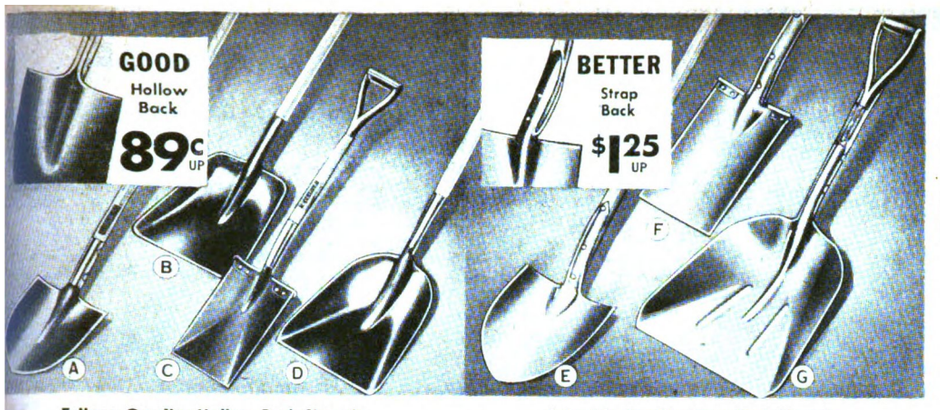
(V) Saw Attachment—fastens to head section only, on above pruner. About 11⅝ in. long.

84 A 6007—Ship. wt. 6 oz...**79c**

(W) Pruning Saw. *Double edge.* 18-in. spring steel blade—⅜-in. tip. Fine and coarse edge for light or heavy branches. Hardwood handle. Sharp teeth.

84 A 5975—Wt. 1 lb. 4 oz.**89c**

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Eclipse Quality Hollow Back Shovels

• Blade and socket are forged from one piece of tough carbon steel. Blades have natural finish.

No. 1 Grade, smoothly sanded Ash handles. All are *Mailable*.

Ⓐ **484 A 5721—Long Handle, Round Point Blade.** Handle 48 inches long. 9½ by 12-inch blade. Shipping weight 4 lbs. Each..... **89c**

Ⓑ **484 A 5730—General Purpose Shovel.** 4-ft. Ash handle. Blade about 11 by 13½ in. Ship. wt. 5 lbs..... **49c**

Ⓒ **484 A 5712—Garden Spade.** Sturdy 26-in., split "D" handle with comfortable wood grip. Blade about 7 by 12 in. Shipping weight 5 lbs. Each..... **89c**

Ⓓ **484 A 5686—Barn or Utility Scoop.** Handy around the farm or home. Has 4½-ft. sanded Ash handle. Blade 11 by 15 inches. Actual weight 6 lbs. Allow for 10 lbs. postage —Postal regulations. Each..... **98c**

Handles for Hollow Back Shovels and Spades

No. 1 Grade, carefully chucked and sanded Ash. *Mailable*.

484 A 5795—Long Handle for Shovels. Length about 4 feet. Shipping weight 2 lbs. Each..... **33c**

484 A 5782—Steel "D" Handle for Garden Spade. Length about 25 in. Wood grip. Ship. wt. 2 lbs. Each.... **33c**

Lakeside Quality Strap Back Shovels

• Blade and front strap are one piece—back strap is solidly welded to blade. Blades have Satin finish.

X-Grade Northern Ash handles, polished and waxed. *Mailable*.

Ⓔ **484 A 5720—Long Handle, Round Point.** 47-in. handle. Blade 8⅞ by 11½ in. Ship. wt. 4 lbs. Each..... **$1.25**

Ⓕ **484 A 5700—Garden Spade.** 27-in. split wood "D" handle. 7 by 12-in. blade. Malleable step. Ship. wt. 5 lbs. Ea.. **1.25**

Repair Handles for Strap Back Shovels and Spades

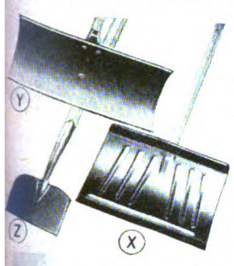
X-Grade Ash, waxed and polished. Ship. wt. each 2 lbs.

484 A 5788—26-in. split "D" Double Bend—for shovels. Each **35c**
484 A 5783—About 4½-ft. Double Bend—for shovels. Each.. **35c**
484 A 5787—26-in. split "D" Double Bend—for spades. Each **35c**

Ⓖ **Lakeside Quality Grain Scoops.** Hollow back for light weight. Well balanced. Wide satin finish blade has ribbed bottom for added strength. 26½ in. handle—split wood "D" grip.

Article Number	Size No.	Blade, Inches	Ship. Wt.	Each
484 A 5695	8	13½ by 16½	6 lbs.	$1.45
484 A 5697	10	14 by 17½	6 lbs.	1.55
484 A 5698	12	14½ by 18½	6 lbs.	1.65
484 A 5699	14	15 by 19½	7 lbs.	1.75

484 A 5789—26-in. split "D" handle for above. Wt. 2 lbs. Ea. **35c**



Save at Wards on Snow Tools

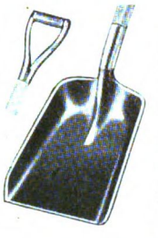
Ⓧ **484 A 5737—Shovel.** Highest Quality high carbon spring steel blade, 18 by 16 in.—embossed edge—back stop—Black enameled. 41-in. Ash handle riveted to blade through *steel socket*. "D" grip. Ship. wt. 5 lbs. 8 oz..... **79c**

484 A 5734—Shovel (not shown). Black fin. carbon steel blade 18 by 13 in.—riveted to 33-in. handle. Steel "D" grip. Wt. 6 lbs.. **55c**

Ⓨ **484 A 5731—Pusher.** 18-ga. curved steel blade, size 20 by 10 in. Hardwood handle 4 ft. long. Ship. wt. 8 lbs..... **65c**

Ⓩ **484 A 5738—Scraper.** 7-in. 1-piece forged blade, socket. Handle riveted through socket. 46-in. Ash hdle. Ship. wt. 3½ lbs.. **69c**

484 A 5736—Scraper. (not shown.) 7-in. 1-pc. sheet steel blade, socket. 4-ft. hdle. Wt. 3 lbs. **42c**

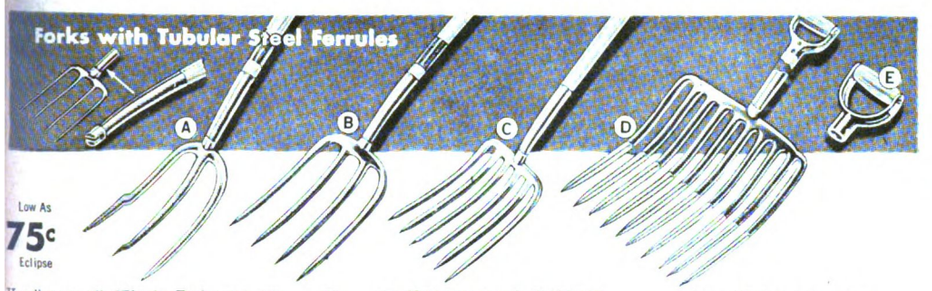


Furnace Scoops

Eclipse quality. Hollow back—blade and socket forged from 1 piece carbon steel. Natural finish blades. About 30-in. Ash handles. Low lift for cleaning ash pits. *Mailable*.

484 A 5735—Blade abt. 10 by 13 in. Split "D" wood grip. Ship. wt. 7 lbs.... **79c**

484 A 5733—(Not shown) Blade abt. 8 by 13 in. Steel "D" grip. Ship. wt. 6 lbs **49c**



Handles on all Wards Forks are surrounded by Tubular Steel Ferrules (small picture above). Much stronger than ordinary strap ferrules.

Master Quality. Finest oil tempered spring steel oval tines. Bronzed, rust-resisting heads. Finest quality XX-Grade Northern Ash handles, carefully waxed and polished.

Eclipse Quality. Oil tempered spring steel oval tines. Painted heads. Good X-Grade Ash handles; waxed, polished.

Ⓐ **Master and Eclipse Hay Forks.** All have 12-in. spring steel tines, and tubular Steel Ferrules (described above). Ship. wt. each 3 lbs. *Mailable*.

Art. No.	Quality	Tines	Length Handle	Each
484 A 6030	Eclipse	3	4 ft.	75c
484 A 6033	Master	3	4 ft	$1.10
484 A 6034	Master	3	4½ ft.	1.19

Ⓑ and Ⓒ **Master and Eclipse Manure Forks.** Master Quality have 12½-in. oil tempered spring steel tines. Eclipse have 12-in. spring steel tines. All have Tubular Steel Ferrules (described at left). Shipping weights each 3 to 6 lbs. *Mailable*.

Art. No.	Quality	Tines	Type Handle	Each
484 A 6038	Eclipse	4	4 ft	79c
484 A 6039	Eclipse	4	4½ ft	85c
484 A 6040	Eclipse	5	4 ft	98c
484 A 6041	Master	4	4 ft.	$1.29
484 A 6043	Master	5	4 ft.	1.49
484 A 6045	Master	6	4 ft.	1.69
484 A 6046	Master	6	Steel "D"	1.79

Ⓓ **Master Ensilage Fork.** Ten 16-in. oval tines. Width about 15 in. 30-inch handle—steel "D"—wood grip.
484 A 6058—Ship. wt. 7 lbs..... **$2.79**

Steel "D" Handle Head

Ⓔ For all shovel or fork "D" handles. 4½-in. wide wood grip.
84 A 5786—Ship. wt. 12 oz. Each.... **14c**

Hay and Manure Fork Handles

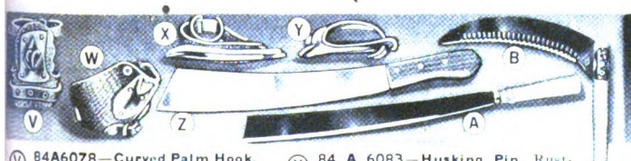
Master Quality are finest XX Grade Northern Ash. **Eclipse Quality** are select No. 1 Ash. Waxed and polished. Bored for easy replacement. Tubular Steel Ferrules. Ship. wt. each 3 lbs. **State length.**

Bent Hay Fork Handles

Art. No.	Quality	4-ft	4½ ft.	5-ft
484 A 6138	Eclipse	25c	29c	
484 A 6136	Master	45c	49c	55c

Bent Manure Fork Handles

484 A 6137	Eclipse	25c	29c	
484 A 6135	Master	45c	49c	



Ⓥ **84A6078—Curved Palm Hook.** Leather hand pad and heavy wrist band. Laces twice around wrist. Rust-resisting steel hook. *Right hand only*. Ship. wt. 5 oz. Each **39c**

Ⓦ **84 A 6086—Thumb Hook.** Easily adjusted leather palm. Rust-resisting steel hook. *Right hand only*. Ship. wt. 5 oz. Each.... **21c**

Ⓧ **84A6087—Husking Pin.** Rust-resisting finish steel Pin. Top quality heavy chrome leather straps. Ship. wt. ea. 3 oz. Each.... **8c**

84 A 6080—Husking Pin. Same as 6087 but lighter wt. straps. Ship. wt. 3 oz. Ea.... **5c; 2 for.... 9c**

Ⓨ **84 A 6083—Husking Pin.** Rust-resisting steel. 4¾ in. long. Adj. leather guard and hand strap. *Right hand only*. Ship. wt. each 4 oz. Ea.. **14c**

Ⓩ **84 A 6096—Corn Knife.** Polished steel, curved blade about 15½ in. long by 3 in. wide at tip. Wood handle. Ship. wt. 1 lb. 6 oz. **49c**

Ⓐ **84 A 6098—Corn Knife.** High quality forged steel tapered natural finish blade about 17 in. long. Wood handle. Ship. wt. 2 lbs..... **39c**

Ⓑ **84 A 6094—Corn Hook.** 11¼ in. serrated spring steel blade. Adjusts 3 ways. Handle 20 in. long. Shipping weight 2 lbs. Each..... **42c**



Ⓒ **Garden Rakes, Master.** Curved teeth. 5-ft. Ash handle. Width heads 15, 17 in. Ship. wt. each 4 lbs.
484 A 5863 14 teeth. **$1.10**
484 A 5864 16 teeth..... **1.20**

Eclipse. 14 straight teeth. Width head 13½ in. Wt. 3 lbs.
484 A 5861 Each..... **65c**

Ⓓ **Eclipse Hoe.** Tang driven into handle and riveted. 6½ in. wide. Carbon steel blade riveted to tang. 4-ft. handle.
484A5884—Wt. 2 lbs. **37c**

Ⓔ **Spading Forks.** Four 11-in. tines. Tubular ferrules. 30-in. "D" handles, wood grips.
484 A 6052—Master. Heavy, polished steel tines. Wt. 5 lbs.... **$1.39**
484 A 6050—Eclipse. Lt. wt. natural tines. Ship. wt. 4 lbs..... **75c**

Ⓕ **Wire Lawn Rake.** For leaves, grass. 16 spring steel wire teeth, 17 in. wide, 48-in. hardwood handle.
484 A 5842—Ship. wt. 3 lbs. Each **29c**

Ⓖ **Bamboo Rake.** 33 flexible curved bamboo teeth, 18 in. wide, 4-ft. domestic wood handle. Extra heavy wire bound head. Won't injure grass roots.
484 A 5857—Ship. wt. 2 lbs. Each. **39c**

Ⓗ **Brume Rake.** Master quality. Sweeps like a broom. Lightweight—easy to use. 22 flexible flat spring steel teeth, 19 inches wide. 3½-foot Ash wood handle. Won't injure grass roots.
484 A 5869—Ship. wt. 1 lb. Each... **75c**

Ⓙ **Weed Cutter.** Tool steel blade, sharpened on both edges—cuts 14¼-in. swath. Wood handle. Overall 38 in.
484 A 5984—Ship. wt. 5 lbs..... **47c**

Ⓚ **Mowing Hook** 18-in. forged steel blade—ribbed for extra strength. Removable for grinding. 4½-ft. Ash handle—adj. grip.
484 A 6009—Ship. wt. 5 lbs.. **$1.19**



Railroad or Dirt Pick

Ⓛ Forged steel. Actual wt. 6 lbs. Length overall about 23½ in. One flat and one pointed edge. Hardened.
484 A 6100—Ship. wt. 6 lbs. Less Handle..... **69c**

Forged Steel Mattock

Ⓜ Long cutter style. 4-in. hoe blade. 3-in. cutter. Length abt. 16 in. Ship. wt. 6 lbs.
484 A 6116 - Less Handle **79c**

Steel Blade Bush Hook

Ⓝ Ideal for brush cutting. Curved forged steel blade abt. 2¾x13 in. Bolted by steel strap to 36-in. Hickory handle. For replacement handle order 36-in. single bit axe handle, see Index.
484 A 6075—Ship. wt. 6 lbs. **$1.55**

36-in. Hickory Handle

Ⓟ For Mattock or Pick at left. Second growth. Waxed, polished.
484 A 6101—Ship. wt. 2 lbs.. **29c**

Medium Grit Abrasive File

Ⓡ Full 9-in. stone. Tapered sides, sharp corners fit mower sections perfectly. Enameled handle. Length overall 14 ins.
84 A 6026—Shipping weight 1 lb. 8 oz. Each..... **75c**

Fine Grit Scythe Stone

Ⓢ First quality fine grit natural stone 10x1⅝x1⅛ in.
84 A 6028—Shipping weight 1 lb. 8 oz. Each..... **12c**

Hay Knife

Ⓣ Lightning pattern. One-piece oil tempered, forged steel blade—serrated edge. Tang of blade extends through hardwood handle. Length about 36 in. Red painted finish, polished edge. Ship. wt. 4 lbs.
484 A 6082.. **$1.39**

Scythe Blades — Made in U. S. A.

Ⓤ **3-Piece Style.** Tool steel cutting edge, carbon steel body and steel back welded into one piece.
1-Piece Carbon steel — painted.
State Art. No. Wt. 4 lbs.

Blade	Size In.	3-Piece Style	Price Each	1-Piece Style	Price Each
Grass	32	484A6011	$1.25	484A6010	98c
Weed	28	484A6013	1.35	484A6016	$1.10
Bush	20	484A6015	1.35	484A6018	1.10

Second Growth White Ash Snaths

Ⓥ Polished handles and grips. Malleable iron metal parts. Length 58 inches.
484 A 6020—For grass scythes. With wrench. Ship. wt. 4 lbs..... **$1.45**
484 A 6022—For weed and bush scythes. Ship. wt. 5 lbs..... **1.65**
484 A 6021—Heavy 2-Ring Fastener. Has 2 metal wedges. For weed or bush scythes. Ship. wt. 5 lbs..... **$1.65**

See Inside Back Cover for Terms

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STEEL I-BEAM TO PREVENT HANDLE BREAKAGE



Steel I-Beam inserted in wood handle—makes Wards Master Quality Shovels 30% stronger where 65% of all shovel breaks occur!

Every Blade carefully heat treated by skilled craftsmen to prevent wear—then tested for hardness—then polished.

Wards Master Quality Shovels, Scoops, Spades

• **Closed Back Blade—steel plate welded over back of blade and into tapered socket—strongest possible shank construction—lightweight.**
• **I-Beam Construction—flanges grip and brace handle above and below socket—strongest possible handle construction—stands hardest wear.**
• **XX Grade Northern Ash Handles—carefully sanded, waxed, polished.**

Ⓗ **484 A 5769—Long Handle, Round Point Blade.** 9 by 11¾-in. blade. 47-in. handle. Arrow point extra tough—resists strain and hard wear. *Mailable*. Ship. wt. 5 lbs. Ea. **$1.59**

484 A 5767—Same as (H) but 26½-in. "D" handle. *Mailable*. Ship. wt. 4 lbs. Each..... **$1.59**

Ⓙ **484 A 5768—Square Blade "D" Handle.** 9½ by 11¾-in. blade. 26½-in. split "D" handle. General purpose. *Mailable*. Ship. wt. 5 lbs. Each..... **$1.59**

Ⓚ **484 A 5770—Garden Spade.** 7 by 12-in. blade. Split wood "D" handle. Malleable iron step. *Mailable*. Shipping weight 5 lbs. Ea..... **$1.59**

Ⓛ **484 A 5703—Drain Spade.** Rounded point curved blade 5½ in. wide at step —16 in. long. 26½-in. split wood "D" handle Malleable iron step. *Mailable*. Shipping weight 5 lbs. Each..... **$1.65**

Ⓜ **484A5709—Post Hole Spade.** Square cornered curved blade about 6 in. wide at step—16 in. long. 26½-in. split wood "D" handle. Malleable step. *Mailable*. Shipping weight 5 lbs. Each..... **$1.65**

Repair Handles for Closed Back Shovels and Spades

Same high quality as on above tools, but don't have steel I-Beam.
484 A 5792—Split wood "D" Hdle. Abt. 24 in. Ship. wt. 2 lbs. *Mailable*. Ea. **45c**
484 A 5793—Long Handle, about 3½ ft. Ship. wt. 1 lb. *Mailable*. Each..... **45c**

Wards Master Quality Grain and Coal Scoop

Ⓝ Hollow back for light weight. *Heat treated* for extra long wear. Polished high carbon steel ribbed blade for greater strength. Blade and socket one piece. Ash handle has I-Beam construction—about 26½ in. long—split "D" wood grip. All sizes *Mailable*.

Article Number	Size No.	Blade Inches	Ship. Wt	Price Each
484 A 5682	8	13½ by 16½	5 lbs.	$1.85
484 A 5683	10	14 by 17½	5 lbs.	1.95
484 A 5684	12	14½ by 18½	5 lbs.	2.10
484 A 5685	14	15 by 19½	6 lbs.	2.20

For extra handles order 484 A 5789 listed under Lakeside Grain Scoop.

Woods Moly Steel, Round Point Shovel $2.50

Made by the Nationally known Wood Shovel and Tool Co. Pictured at right. 16-gauge high molybdenum content steel. Lighter in weight, but stronger than regular carbon steel (16-gauge Moly steel is stronger than 15-gauge carbon steel). Heat treated by skilled craftsmen for long wear. Rigid tests prove its longer life and exceptional durability —moved 5 times more material than next best competitive Shovel and was still serviceable. If you want the very best, buy this shovel.

Long Handle, Round Point Blade. Arrow point on Closed Back, Black finished blade stands more wear than ordinary point. 4½-ft. XX-grade Northern Ash handle with steel I-Beam construction. *Mailable*.
484 A 5766—Blade 8¾ by 11¾ in. Ship. wt. 4 lbs..... **$2.50**



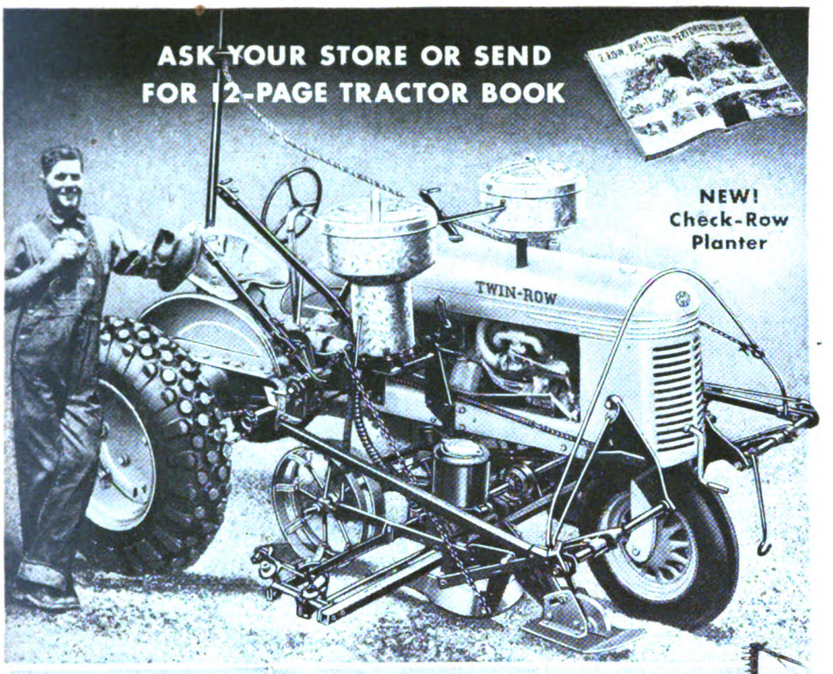
FILL ALL YOUR GARDEN NEEDS NOW

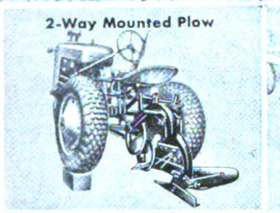
Look what only $2.50 a Month will buy at Wards:

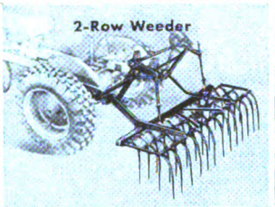
P 184 A 5602—Rubber Tired Wheelbarrow....	$5.50
P 484 A 5666—Rubber Tired Lakeside Mower..	7.25
P 684 A 7863—25 Feet of Lakeside Garden Hose..	1.98
484 A 5863—Master Quality Garden Rake....	1.10
84 A 5967—Master Quality Hand Pruner....	.98
Total.....	$16.81

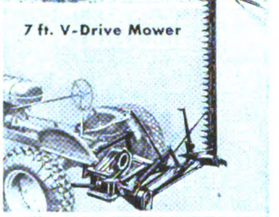
Make up your own order—Details Inside Back Cover.

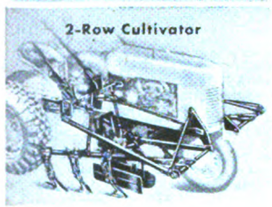
Wards TRUE-PULL Power Package Farming

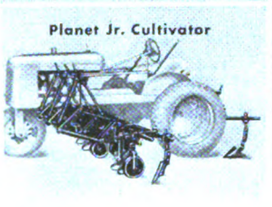


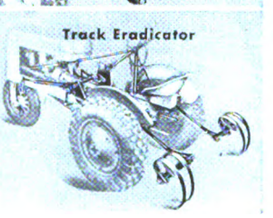

2-Way Mounted Plow


2-Row Weeder


7 ft. V-Drive Mower


2-Row Cultivator


Planet Jr. Cultivator


Track Eradicator

True-Pull Implements PLUS Wards Twin-Row Tractor form a POWER PACKAGE! First the True-Pull im plements were designed to do the job. Then the Tractor was made to power the Implements. Togethe they form a POWER PACKAGE that speeds up work—cuts production costs—earns Bigger Profits!

The name True-Pull on Ward Implements means they operate in a true line of draft or pull (ha horse drawn tools). Each mounted True-Pull tool uses a common tool mount and is pulled from one True-Pu point by the tractor. The tools are free-floating. They penetrate and hold uniform depth automaticall Each was made to do its job in the most simple and easy way (not just to fit a tractor). You can us any of the unmounted True-Pull Implements (plows, mower, etc.) with *any make tractor.*

$650.00 Without True-Pull Tool Mount

TWIN-ROW IS A 2-ROW, 2-PLOW TRACTOR

Wards Twin-Row tractor is made for Wards by The Cleveland Tractor Co. It handles 2-bottom plows and 2-row tillage tools. Prices are on Power Grip rubber tires F.O.B. Cleveland, O. Electric starter and lights are available.

$685.00 With True-Pull Tool Mount

Inquire At Your Ward Farm Store About Our Special Income Purchase Plan for Tractor and Implements



See Wards 1941 Spring Catalog

It shows complete lines and full descriptions of all Wards Implements and Farm Equipment. Prices now may be slightly higher due to current market conditions.

Visit your nearest Ward Farm Store (see list below). Ask for *FREE DEMONSTRATION!*



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2-Row Check Planter

Check-row or Drill. Mounts forward for full vision. Longer, free-floating runner base gives greatest cross-check accuracy. Improved gauge shoe cuts trash. Use fertilizer attachment with cultivator as a side dresser.

2-Way Mounted Plow

A sensational new mounted True-Pull Plow that is completely free floating. Maintains a constant, uniform depth independent of tractor movement and reduces plowing fuel costs to a minimum.

Two-Row Weeder

Use with or without cultiva tor. The high-speed way to prevent weeds. Regulates to penetrate 1 to 1½ in.—kill weeds without disturbing deeper rooted plants. Spring steel teeth are removable.

7-Ft. V-Drive Mower

Rear mounted with triple V-belt drive (acts as safety clutch.) Full swath vision. Safety shear pin. Swinging windower can be used with this mower. Fits Twin-Row and Cleveland General tractors.

2-Row Cultivator

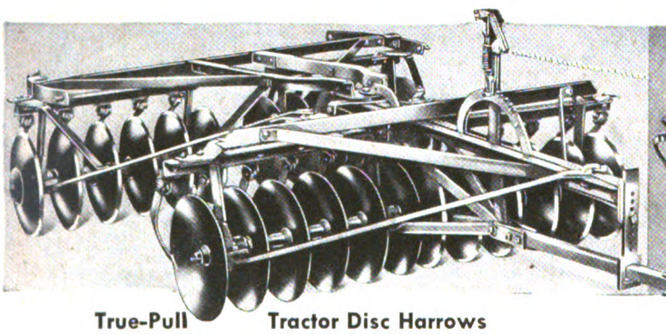
Mounts forward—full vision. True-Pull free floating—no side play. Adjusts for 28 to 44-in. rows.

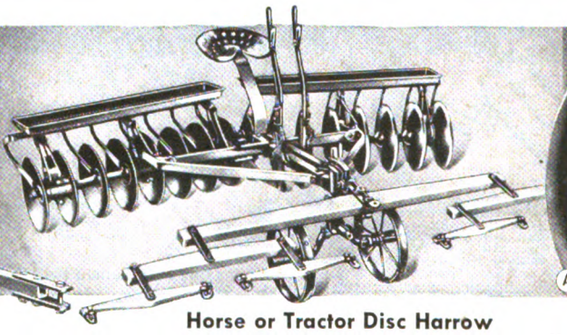
Track Eradicators

Rear mounted spring steel teeth with reversible shovels.

Planet Jr. Cult.

For close, accurate cultiva tion of all garden or narrow row crops. Convertible for 4 or 2-row work. Wide adjustments. Free floating, quick control and gauge wheels. Rear sweeps eradicate tracks.







True-Pull Tractor Disc Harrows

- **True-Pull means disc pulls in true or natural draft lines.**
- **Even smallest tractors pull 6-ft. True-Pull discs easily.**
- **Fully automatic—angle and straighten gangs with tractor.**
- **Bearings lubricated from bottoms through non-clog channels.**
- **Hitch adjusts to drawbar height—pulls direct on gang bolt.**

$89.00 Cash
$8 a Month
See Back Cover

Pulls so easily there's no need for a 5-ft. size! Our 6-ft. disc pulls easier than other 5-ft. discs. Here are two reasons why: (1) Note the floating draft bar. Hitch is adjustable vertically and pull is direct on gang bolts (not distorted through frame). (2) Pivot arms automatically straighten tandem gangs on turns to trail perfectly. No dragging or tearing up headlands—saves power and fuel. Pivot arms prevent rear blades from trailing in furrows of front. It's the design and True-Pull principle that increases capacity, saves fuel and does better harrowing.

Blades are the famous Galesburg, made of tempered steel. Electrically heat treated to resist cracking and curling. Blades lock at tension on big 1-in. sq. gang bolts—can't come loose. Bearings lubricate from the bottom. Standards are steel made narrow to prevent catching trash. Equipped with forged steel scrapers. Triangular frame for adding weight. **Shipped from Factory** near Louisville, Ky. in about 10 days.

Size of Cut	No. of Blades	WITH 16-IN. BLADES Article No.	Ship. Wt.	Price	WITH 18-IN. BLADES Article No.	Ship. Wt.	Price
6 ft.	24	287 A 9002	808 lbs.	$89.00	287 A 9007	876 lbs.	$95.50
7 ft.	28	287 A 9003	864 lbs.	97.50	287 A 9008	942 lbs.	104.50
8 ft.	32	287 A 9004	969 lbs.	109.00	287 A 9009	1063 lbs.	119.00

Horse or Tractor Disc Harrow

$45.50 Cash
$5 a Month
See Back Cover

Pay low horse-disc-prices—get tractor disc construction! Built with tractor disc features: famous Galesburg blades, full 1 in. round gang bolt, oversize 4½ by ¾ in. thick bushings, heavy malleable (not gray iron) standards, oscillating tongue truck, weight pans and blade scrapers. Adjustable hold-downs. Convertible to tractor disc—see listings. **Shipped from Stock** in Baltimore or Albany. See back of book for low Estimated Freight Rates.

Width of Cut	No. of Discs	Evener Size	WITH 16-INCH DISCS Article No.	Ship. Wt.	Price	WITH 18-INCH DISCS Article No.	Ship. Wt.	Price
4 ft.	8	2-H	187 A 9078	360 lbs.	$45.50	187 A 9091	380 lbs.	$46.75
5 ft.	10	2-H	187 A 9190	439 lbs.	49.75	187 A 9193	455 lbs.	53.25
6 ft.	12	3-H	187 A 9191	499 lbs.	55.50	187 A 9194	527 lbs.	59.75
7 ft.	14	4-H	187 A 9081	510 lbs.	61.50	187 A 9094	535 lbs.	66.25
8 ft.	16	4-H	187 A 9082	635 lbs.	67.50	187 A 9095	660 lbs.	73.50
9 ft.	18	4-H	187 A 9083	680 lbs.	72.75			
10 ft.	20	4-H	187 A 9084	715 lbs.	73.75			

187 A 9013—6-ft. tandem att., 16-in. blades. Ship. wt. 327 lbs.. **$36.50**
187 A 9014—7-ft. tandem att., 16-in. blades. Ship. wt. 389 lbs.. **40.50**
Without Scrapers: Deduct 35c per blade from above prices.
187 A 9037—Tractor Hitch. Replaces tongue truck and eveners to make tractor disc harrow. Ship. wt. 20 lbs.. **$4.25**

(A) Galesburg Blades

Usual list price about $1.40. Made of Ingersoll Temcross steel that resists splitting, nicking and curling. Electrically heat treated. Lacquered. Wts.: 6, 7, 9, 12 lbs.

98c 15 in.

Diam. In.	Gauge	For ⅞-in. Sq. Axle Art. No.	Each	For 1-in. Round Axle Art. No.	Each
15	12	487 A 189	98c		
16	12	487 A 190	$1.05	487 A 190R	$1.06
18	11	487 A 191	1.43	487 A 191R	1.44
20	10	487 A 192	1.85	487 A 192R	1.86

Bearing Spools and Maple Bushings

(B) Spools: Semi-steel casting. Av. wt. 5 lbs.
(C) Bushings: Set for 1 spool. Av. wt. 8 oz.

State Article No. Make and Spool No. Harrow Name	Spools 587 A 32 Spool No.	Each	Bushings 87 A 54 Length In	Set
Wards	DH383	45c	4 1/32	22c
John Deere	KK14B	45c	2⅝	8c
John Deere	KK126B	45c	2⅝	8c
Keystone (IHC)	PA1263	45c	*3 5/16	10c
Osborne	P1058	45c	3	8c
Oliver	DH383	45c	4 1/32	22c
Oliver	DH8	45c	3⅝	12c

NOTE: PA1263 works for P1263 or P1525. P1058 works for P1258.

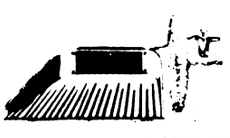
(D) Cast Iron Spreader Spools
587 A 30—For ⅞-in. sq. axle. 6¼ in. long with 2 adjusting washers. For harrows with 6¾ to 7-in. bearing spools. Wt. 4 lbs. 45c

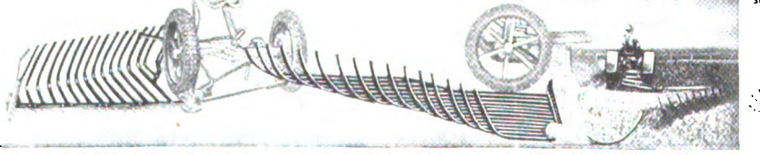
(E) Cast Iron Bumper Washers
Extra heavy. Fit square axles. Wt. 5¼ lbs.
87 A 171—For ⅞-in. axles.. 30c

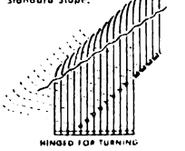
Malleable Iron Bumper Washers

(Not pictured). Same as bumper washer (E) pictured above except made of stronger Malleable (not cast) iron. The stronger structure of malleable iron prevents breakage. Recommended for extra heavy discs and bea tractor harrows. Full 6½ in. in diameter. Ship. wt. 5 lbs. *Mailable.* 40c
87 A 37—Fit ⅞ in. sq. axle..

For Better Hay Curing—Windrow as You Mow!







Hopper Buncher For Mowers

For Short, Thin Crops 4 to 12 Inches

$9.50 5-ft.

Bunches short crops of grass, hay, grain, etc. Finger bars are 38 and 40 in. long with 2-in. spacing. Delivers wide bunch that mower can straddle. Foot trip release. **Shipped from Factory** near Oshkosh, Wis. in about 5 days. **For Horse Drawn Mowers Only—State Make of Mower.**

287 A 9990—For 5-ft. mower. Ship wt. 62 lbs.. **$9.50**
287 A 9991—For 6-ft. mower. Ship wt. 70 lbs.. **$9.95**

Wards Standard Windrower

For Medium Length Crops 1 to 2-ft. High.

$10.95 For 4½-ft. Mower

Windrows all kinds of hay and grain crops not more than 2 ft. high. Rods are spaced 3 in. apart and are rigid (not hinged) type. Windrower has standard slope for windrowing short or medium crops. **Shipped from Factory** near Oshkosh, Wis. in about 5 days.

Size of Cut	Standard Windrower Article Number	Wt. Lbs.	Price	Buncher Gate for Standard Windrower Only Art. No.	Wt. Lbs.	Price
To Fit Horse Drawn Mowers—State Make of Mower.						
4½ ft.	287 A 9981	76	$10.95	M287 A 9996	17	$3.65
5 ft.	287 A 9994	80	11.25	M287 A 9996	17	3.65
6 ft.	287 A 9995	90	12.25	M287 A 9996	17	3.65
For Tractor, State Make, Year, Model of Tractor.						
7 ft.	287 A 9997	105	$16.90	M287 A 9998	20	$4.95

Wards Hinged or Swinging Windrower

For Seed, Grain or Hay Crops Up to 7-ft. High.

$14.50 Cash
$2.50 a Month
See Back Cover

One operation cuts crop and rolls it into loose, fluffy, coiled swaths before leaves dry. Extra long slope in Wards Hinged Windrower—handles tallest of ripe or green crops without blocking. Hinged fingers pivot for turns. **Shipped from Factory** near Oshkosh, Wis. in about 5 days.

Size of Cut	Hinged Windrower Article Number	Wt. Lbs.	Price	Buncher Gate for Hinged Windrower Only Art. No.	Wt. Lbs.	Price
To Fit Horse Drawn Mowers—State Make of Mower.						
4½ ft.	287 A 9934	95	$14.50	287 A 9935	35	$5.75
5 ft.	287 A 9971	97	15.00	287 A 9945	35	6.00
6 ft.	287 A 9972	120	16.25	287 A 9946	40	6.25
For Tractor, State Make, Year, Model of Tractor.						
7 ft.	287 A 9973	130	$22.10	287 A 9938	40	$6.50

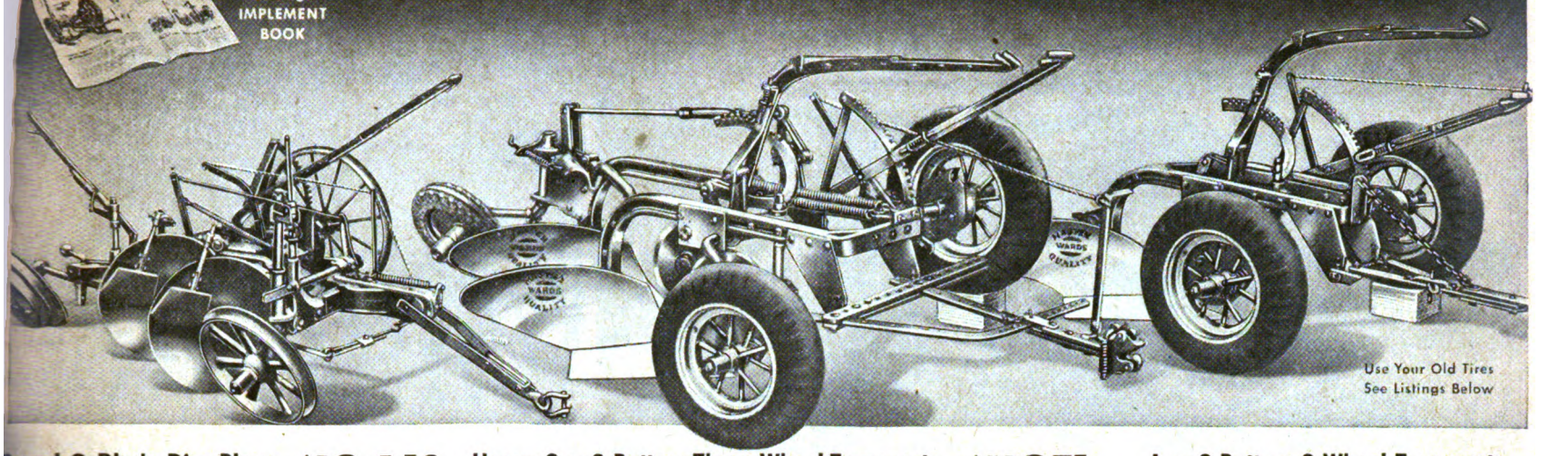
Repairs For Ward Implements

Wards list the most used repair parts for Ward implements and other popular makes on these pages. In addition you can always get quick service by mail from Wards for ANY repair part for ANY Ward implement during the average life of that implement. Refer to Wards 1941 Spring Catalog for more complete listings of implement and machinery repairs.

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Write For Big 28-Page IMPLEMENT BOOK

Any Tractor Uses Less Gas - With TRUE-PULL



Use Your Old Tires See Listings Below

2 and 3-Blade Disc Plows

$126.50 Cash
$9 a Month
See Back Cover

- Penetrates where others cannot.
- Thoroughly mixes or covers trash.
- Blades adjust in pitch to meet tough plowing or to match power.
- Blades raised, lowered by power.

For tough conditions—for average plowing conditions Wards Disc Plow does a better job with your power because blades are adjustable in pitch and cutting width. You can set the blades to use a small, 2-plow or 3-plow tractor.

The flexible-rigid hitch is flexible for short turns and transporting, rigid for plowing. Long adjustable tractor lever for depth control. Blades are 24-in. electrically heat-treated steel. Alemite lubrication. Extra wide strong scrapers. Wheels are flanged type and come equipped with weights for rear wheel only. **Shipped from** near Louisville, Ky. in about 10 days.

187 A 7858—2-Disc Plow. Ship. wt. 1300 lbs. $126.50
187 A 7859—3-Disc (converts to 2 disc). Wt. 1470 lbs. 145.00

Heavy 2 or 3-Bottom Three-Wheel Transports

$112.75 Cash
$9 a Month
See Back Cover

Heavy duty Plows with all the exclusive True-Pull features described at right. In addition these plows are longer and heavier—the extended rear furrow arm takes finer depth and levelling adjustments. It also reduces landside pressure—saves tractor fuel.

The patented High Level Lift always lifts bottoms to the same high 9-in. level. Holland Hitch. **Shipped from** near Louisville, Ky. in about 10 days.

Size In.	No. Bots.	Kind of Wheels	Ship. Wt.	Soft Cen. Steel Bottoms		Chilled Bottoms	
				Article No.	Price	Article No.	Price
12	2	Steel	892 lbs.	187 A 7835	$112.75	187 A 7826	$109.75
14	2	Steel	912 lbs.	187 A 7836	114.75	187 A 7831	112.75
16	2	Steel	924 lbs.	187 A 7837	119.75	.....	.....

187 A 7838—Converts 2-bot. 12 in. S. C. Steel plow to 3 bot. Wt. 183 lbs. $29.75
187 A 7839—Converts 2-bot. 14 in. S. C. Steel plow to 3 bot. Wt. 202 lbs. 31.00
Extra: For any above plow with wheels to take 16-in. auto tires (tires not included). Rear Furrow Wheel with 4.00-12 New Tire included. Add extra $11.25
Extra: For any above plow complete with New Riverside tires. Add extra 27.95

1 or 2-Bottom 2-Wheel Transports

$72.95 Cash
$7 a Month
See Back Cover

True-Pull is the name used on these Plows because they pull in true draft lines. This plus other exclusive True-Pull features saves work, time and fuel. Because the design is so simple it costs less to make and sell.

Exclusive Features of All True-Pull Plows

(1) **"Quick-In" and "Quick-Out":** True-Pull design points bottoms down to enter and up to leave ground. They do it quickly in ½ turn of wheels without pressure springs. Bottoms are free floating—hold depth automatically.
(2) **Adjust for Suck and Landside Pressure:** Rolling landside or rear furrow wheel adjustment saves fuel.
(3) **Trash Clearance:** Cover tall trash because they have high 24-in. throat clearance and 21 in. between bottoms.
(4) **High-Speed Bottoms:** General purpose type. Soft center steel or chilled. 15-in. rolling coulters.
(5) **No Lost Hub Caps:** Caps attach to spokes by wire.
(6) **Levers** adjust 14 in. For easy reach from any tractor.
(7) **High Lift:** Break-pin and friction release hitch. **Shipped from** near Louisville, Ky. in about 10 days.

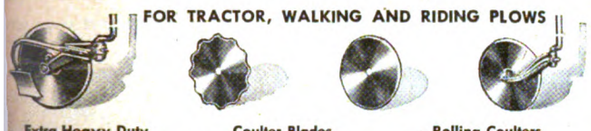
No. Bot.	Size Bot.	On Regular Steel Wheels		
		Article No.	Wt. Lbs.	Price
With Soft Center Steel Bottoms				
1	16 in.	187 A 7807	542	$72.95
2	12 in.	187 A 7840	750	94.50
2	14 in.	187 A 7841	780	96.50
With Deep Chilled Bottoms				
1	16 in.	187 A 7809	542	$71.45
2	12 in.	187 A 7813	750	91.50
2	14 in.	187 A 7824	780	93.50

Extra: For any above plow with Rims To Take Any 16-in. Tires (tires not included). Add $3.98
Extra: For any above plow with New Riverside Tires and Tubes. Add $20.68

EXTRAS: For Both 2-Wheel and 3-Wheel Plows

Extra: For 17-in. Rolling Coulter in place of 15 in. Add 75c
M287 A 7808—Combination Jointer. Attaches to regular equipment coulter stem. Ship. wt. 11 lbs. *Mailable*..$1.95

FOR TRACTOR, WALKING AND RIDING PLOWS



Extra Heavy Duty Tractor Coulters

18-in. blade. Heavy yoke and bearings for high-speed plowing. Zerk fittings. Drilled for combination Jointer below. Wts. 36, 11 lbs.
487 A 123A—Coulter only ... $6.30
487 A 7808—Combination Jointer with Steel Share for above $1.95

Coulter Blades

1¼-in. hole. Not drilled for rivets. **State diam.**
487 A 111—**Regular. 13-in.** Blade. Wt. 5 lbs. $1.15
15-in. Blade. Ship. wt. 6 lbs. 1.60
18-in. Blade. Ship. wt. 8 lbs. 2.50
487 A 114—**Notched.** 15-in. Wt. 6 lbs. ... $2.00
16-in. Wt. 7 lbs. ... 2.35
18-in. Wt. 8 lbs. ... 3.30

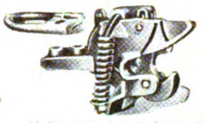
Rolling Coulters

With famous Galesburg electrically heat treated blades described at right.
487 A 121—14-in. Blade for walking plows. With clamp for wood or steel beam. Ship. wt. 19 lbs. $3.75
487 A 122—15-in. Blade for riding plows. 1¼-in. round stem. Clamp not included. Ship. wt. 20 lbs. ... $3.80

GALESBURG Coulter Blades

All coulter blades at left, whether listed separately or on coulters, are genuine Galesburg. These blades have long been famed for resistance to breakage and long wearing qualities.

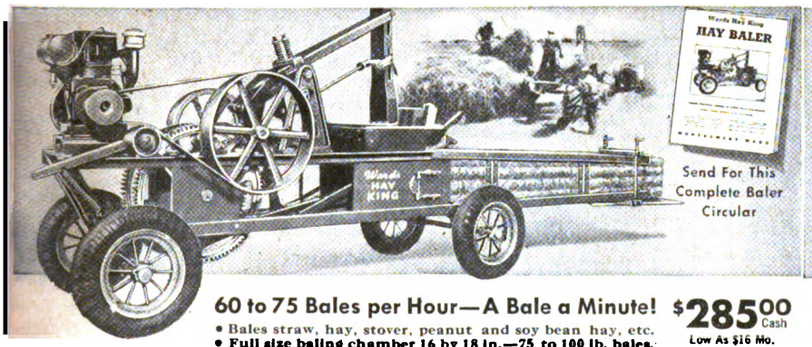
- **Rolled Two Ways**—The steel in Galesburg blades is Temcross—rolled two ways to form interlocking grain that resists splitting and curling.
- **Stay Sharper**—because they are electrically heat treated and tough.



Only $5.65

Holland Spring Release Safety Hitches

New! Improved type. Save dollars of damage and hours of time in the field. Adjust to release from 1200 to 3850 lbs. pressure. **Shipped from** near Holland, Mich. in about 5 days.
M287 A 7843—Holland No. 480 (pictured). Fits all 1 to 3-bottom plow drawbars except those shown below. *Mailable*. Wt. 14 lbs. $5.65
M287 A 7842—Holland No. O-480 (not pictured). For Wards vertical hitch-bar and Oliver plows only. *Mailable*. Wt. 15 lbs. $5.65
M287 A 7852—**Lap Ring.** Holland No. 506. For use with hitch on tractor drawbar. *Mailable*. Ship. wt. 3 lbs. 89c



60 to 75 Bales per Hour—A Bale a Minute!

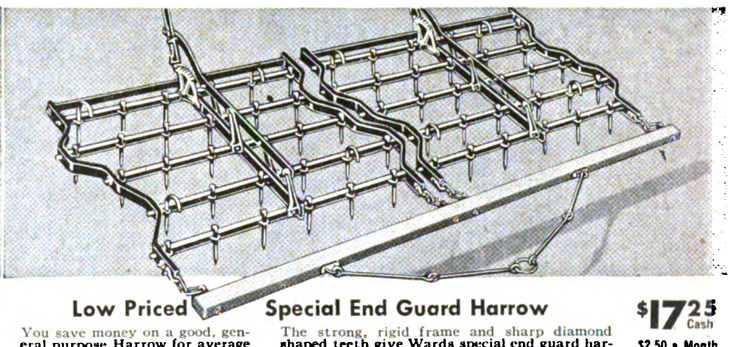
$285.00 Cash
Low As $16 Mo.
See Back Cover

- Bales straw, hay, stover, peanut and soy bean hay, etc.
- **Full size baling chamber 16 by 18 in.—75 to 100 lb. bales.**
- **Combination belt tightener and cutout on power baler.**
- **Two oversize driving gears (instead of usual one).**

Save up to $200! Lifetime quality with replaceable bottom plate in bale chamber—just remove 4 bolts. **Efficient, Smooth-Running Belt Drive** on power baler—superior to chain drive—eliminates broken blocks if machine jams. Main driving pulley runs at 185 R.P.M., the right speed for greatest power. Pulley is 28 in. in diam. with 5½-in. face. Takes 5-in. belt. Belt tightener also acts as a clutch—operator can stop baler instantly by raising lever to disengage tightener from belt. Baler is always under control. Tramper or Feeder Head admits a full charge of hay because it lifts all the way up and completely uncovers the bale chamber. Its speed is timed so that it rises much faster than it tramps down, giving you more time to put in the hay before the down swing. Slower down-swing assures more pressure, tighter bales. Tramper has large bearing surfaces, with Alemite fittings. Extra long bale track gives more time to wire bales. Mechanical Block Setter sets block in combination with hand lever control.

Lightweight—easily moved.—Pulls easily over soft, wet ground on big 24-in. steel wheels. Wide 3-in. rims won't mire down. Length of machine, not including tongue, 16 ft. 3 in.; width overall 56 in.; height to top of feeder head, 66 in.; height to hopper, 42 in. Requires only 5 H.P. and up from an engine mounted on baler, or by belt to any tractor. **Shipped from** near Raleigh, No. Carolina in about 7 days.

287 A 2714—With Steel Wheels, (not pictured), without engine. Ship. wt. 2250 lbs. $285.00
287 A 2728—With 5½-H.P. Ward Gasoline Engine and all pulleys and belts, ready to run. Ship. wt. 2595 lbs. $415.00
287 A 2729—With 8-H.P. Ward Engine, pulleys and belts. Ship. wt. 2600 lbs. $439.50
For any above without tramper, deduct 69.50
For roller bearing wheels with rims to fit 5.50 or 6.00x 16 tires (no Tires) add $18.95



Low Priced Special End Guard Harrow

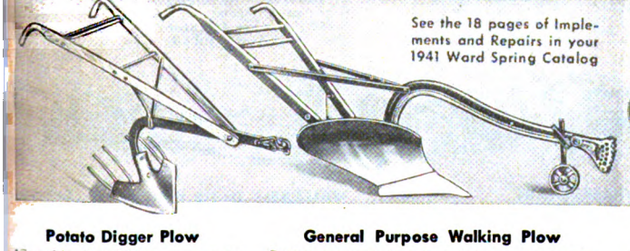
$17.25 Cash
$2.50 a Month
See Back Cover

You save money on a good, general purpose Harrow for average soil conditions when you buy Wards Special End Guard Harrow. Just compare tooth size, construction features and weight with other well known harrows selling at average dealer list prices as much as $3 per section higher.

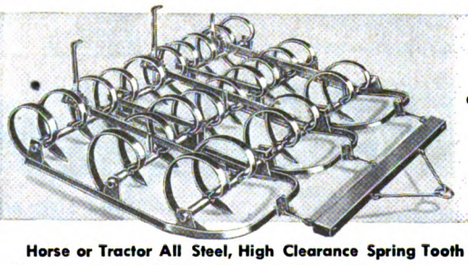
In plowed ground, as a trailer unit behind your disc and in seedbed preparation Wards special end guard harrow does a thorough job of breaking up clods, air pockets and pulverizing the soil.

The strong, rigid frame and sharp diamond shaped teeth give Wards special end guard harrow excellent penetration and cutting power. **Teeth:** Forged steel, 7 in. long. 1⅛ by 1⅜ in. diamond shape. Teeth are reversible—have 2 cutting edges. Four runner teeth to section.
Levers: Strong steel levers with steel quadrants. Easy working.
Tooth Holders: Patented forged steel eyebolts.
Tooth Bars: Heavy steel U-bars forged to rotate in side bars.
End Guard Rails: Shaped from strong, high-carbon steel bars.
Center Rails: Channel steel beams for extra strength and rigidity. Hardwood drawbar and draw links furnished on all but single sections. See Inside Back Cover for Details of Time Payment Plan. **Shipped from Stock** in Baltimore or Albany.

Sec.	Teeth	Size Cut	Article No.	Ship. Wt.	Price
1	25	3 feet 6 inches	187 A 5900	80 pounds	$7.65
1	30	4 feet 2½ inches	187 A 5901	90 pounds	8.65
2	50	7 feet 1 inch	187 A 5902	170 pounds	17.25
2	60	8 feet 7 inches	187 A 5903	190 pounds	19.50
3	75	10 feet 9 inches	187 A 5904	260 pounds	26.90
3	90	12 feet 9 inches	187 A 5905	300 pounds	31.25

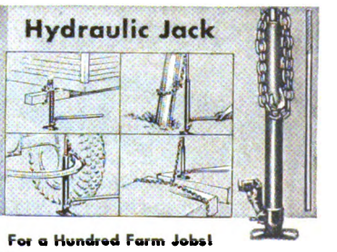


See the 18 pages of Implements and Repairs in your 1941 Ward Spring Catalog



Listed With Regular, Alfalfa or Quack Grass Teeth

Hydraulic Jack



Potato Digger Plow

$8.25

A combination hiller and digger. Middle-breaker blade lifts potatoes—malleable fingers shake loose dirt. A fast, low cost method of harvesting your potato crop. Use without fingers for hilling. High clearance, forged steel beam. Solid steel blade 14 by 21 in. Detachable malleable iron fingers are adjustable. Handles adjustable for height. *Not Mailable.*

187 A 895—Plow complete. Ship. wt. 48 lbs. $8.25
487 A 896—Extra 14 by 21-in. blade with malleable fingers. *Mailable*. Ship. wt. 17 lbs. $3.40

General Purpose Walking Plow

$19.75 Cash
$3 a Month
See Back Cover

Scours easy even in soft, moist or weedy bottom lands. High throat clearance and long moldboard assures thorough coverage of trash. General purpose turf and stubble shape turns sod smoothly.

Soft center steel moldboard and share. Strong inner landside and frog. Gauge wheel is extra. **Shipped from Stock** in Baltimore or Albany. See back of book for Freight Rates.

Size In.	Wt. Lbs.	Right Hand	Left Hand	
		Article No.	Article No.	Either Plow
12	107	187 A 4854	187 A 4859	$19.75
14	120	187 A 4868	187 A 4863	19.95

487 A 4827—Gauge wheel. Wt. 10 lbs. ... $1.25

Horse or Tractor All Steel, High Clearance Spring Tooth Harrow

$29.25 Cash
2-Sections—$4 a Month
See Back Cover

The strong angle steel frame has rounded corners—no sharp angles to catch and gather trash. Angles are turned in—no traps to gather stones. The renewable shoes are bolted on (not riveted)—quickly replaced. Levers are reversible for tractor use. Note the 3-hole adjustment at each section to give correct draft for penetration. Teeth are oil tempered spring steel fastened with steel clamps. 1¼ in. seamless pipe tooth bars. Drawbar on all but single sections. **Shipped from Stock** in Baltimore or Albany.

No. Sec.	No. Teeth	Width of Cut	Ship. Wt.	Article No.	Price
1	9	3 ft.	125 lbs.	187 A 9960	$14.95
2	17	5 ft. 10 in.	252 lbs.	187 A 9962	29.25
3	25	8 ft. 8 in.	378 lbs.	187 A 9964	42.95
4	33	11 ft. 6 in.	504 lbs.	187 A 9966	63.50

EXTRA: Steel handles. (For 1 sec.) State on order and add $1.40
Alfalfa Teeth: In place of regular. State and add per section 60c
Quack Grass Teeth: In place of regular. State and add per section 60c

For a Hundred Farm Jobs!

$4.95

It's new! A Chain Lift Jack for car, for tractor and for farm jobs. With the chain you can use it for lifting cars, tractors, trucks, farm machinery, light building foundations, for pulling posts and many other practical uses. (See small pictures above.)

The jack has a rated capacity of 3000 lbs. but can handle loads twice rated capacity without injury to the jack. The lifting range is 17 inches. Screw releases pressure. Jack will operate in horizontal position of pressing, bending and straightening work. Outfit includes jack, strong chain with hook and 20-in. handle.

487 A 8830—Ship. wt. 17 lbs. $4.95

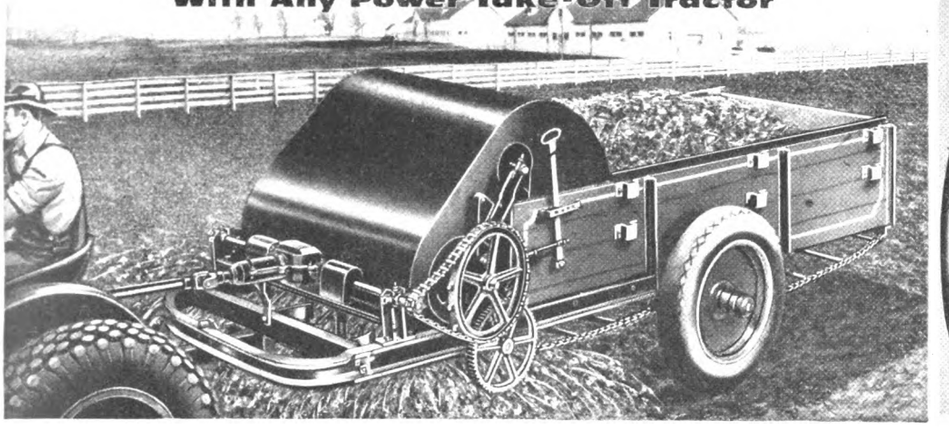
For Terms See Inside Back Cover

BA WARDS 1141

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SPREAD 3 TIMES FASTER

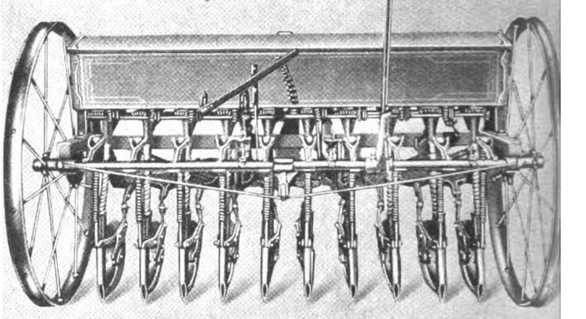
With Any Power Take-Off Tractor





Send for FREE 28-Page Implement Book

FERTILIZER GRAIN DRILLS



"TRAIL'R-SPREAD"—95 Bushel Spreader—Makes a 2-Ton Trailer!

$187.50 Cash
Less Tires
$12 a Mo.—See Back Cover

- **FRONT DRIVE—Short coupling to power take-off—no power loss—spreads close to the ground.**
- **SPREADS ANYTIME—In mud, snow, anywhere tractor will go—drives by power (not traction).**
- **BEATER ACTION—Cylinders enclosed—works like a hammer mill—spreads and pulverizes better.**
- **BIGGER CAPACITY—Box holds full 95 bushels—spreads 9 ft. wide—fewer loads, fewer trips.**

Year 'Round Service—a big capacity Spreader when you need it—a 2-ton trailer or stock rack the rest of the time. Distributor easily removed—converts to a Timken Bearing trailer that weighs 900 lbs. Actually two machines at price of one!

Exclusive Front Drive—Distributor is in the front where it is most efficient. Spreads in any weather because the tractor power (not the spreader wheels) drives the distributor.

Spreads Faster—because it's bigger capacity (95 bushel)—it spreads wider (full 9 ft.)—it runs at faster operating speeds (no wheel drag)—it's quicker and easier to load (load from sides or back—back it through barn doors).

Spreads Better—because enclosed cylinders give hammer mill action and fast, 4-blade distributor fans spread close above ground (20 in.). Wind doesn't blow it—doesn't throw chunks.

Box: Tongued and grooved fir 120 by 45 in. by 22 in. deep.

Feed Range: Adjustable by lever for 4 to 24 loads to acre.

Wheels: Demountable disc type—take 7.00 or 7.50 by 20-in. truck tire. **Shipped from** near Waterloo, Ia. in about 7 days.

IMPORTANT: State make, year, model and serial number of Tractor for correct power take-off coupling.

287 A 7040—"Trail'R-Spread" with New 4-ply, 7.50-20 Riverside tires. Ship. wt. 1590 lbs. **$234.50**

287 A 7041—Above without tires. Wt. 1480 lbs. **187.50**

287 A 7042—15-in. Tip-top Box. Makes box capacity 85 bushel on trailer. Ship. wt. 110 lbs. $11.95

287 A 7043—18-in. Stock Rack for use with tip-top box above. Ship. wt. 85 lbs. $11.50

Full I-Bushel Per Foot Grain Hopper

$162.50 Cash
$10 a Mo.—See Back Cover

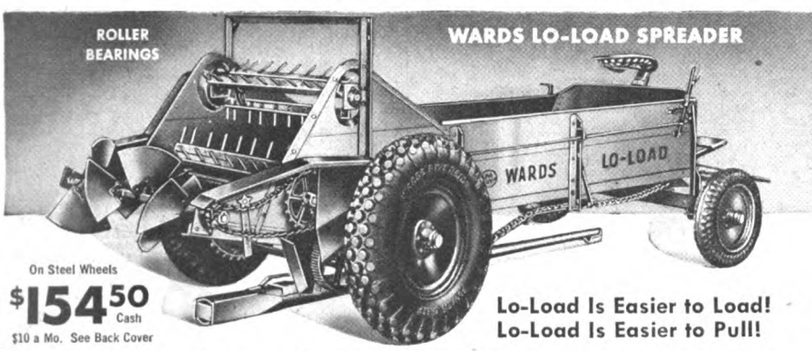
Our 28-page Implement Book above tells all about exclusive accuracy features: disc-shoe openers—internal double run force feeds — safety break-pins on drive — balanced drop frame—1-bushel-per-foot hopper and other improved features.

Wood hopper with galv. copper bearing steel lids—designed for perfect balance under all loads. Improved star finger fertilizer feed. Ten sowing rates with lever indicator. Entire fertilizer feed mechanism easily removed for cleaning. Drills with horse hitch include poles and hitch. Tractor drills have levers in front. Rear lift. **Shipped from** and pay freight from Baltimore, Md.

No. Discs	Spacing	Tire Size	Horse Hitch	With Horse Hitch Art. No.	Wt. lbs.	Price	With Tractor Hitch Art. No.	Wt. Lbs.	Price	Grass Seed Att. Wt. lbs.	Price
10	7 in.	3 in.	2-H	187A7714	1115	$162.50	187A7715	1115	$157.50	48	$12.95
11	7 in.	3 in.	2-H	187A7716	1180	173.50	187A7717	1180	169.50	51	15.25
12	7 in.	3 in.	3-H	187A7718	1230	182.50	187A7719	1230	177.50	54	16.95
13	7 in.	3 in.	4-H	187A7720	1429	194.50	187A7721	1429	189.50	57	17.95

187 A 7729—Power Lift for any above 10 or 11 disc drill. Wt. 72 lbs. $16.95

187 A 7730—Power Lift for any above 12 disc or larger drill. Wt. 144 lbs. 33.75



On Steel Wheels

$154.50 Cash
$10 a Mo. See Back Cover

Lo-Load Is Easier to Load!
Lo-Load Is Easier to Pull!

Easier to Load—because the box is low down—37½ in. from the ground (less than hip-high on a man).

Easier to Pull—because the wheels and driven parts have 10 big, pressure lubricated roller bearings. Horses work faster and easier. Saves tractor fuel.

Lo-Load's frame is all steel with full length angle steel sills. The 70 bushel, yellow pine box is semi-liquid tight. The distributor has 8 (not usual 6) cleaver blades on a square (not round) shaft. Spreads 7 ft. wide, 6 speeds (4½ to 27 loads to acre). Front wheels take 5.50 to 6.50 by 16-in. tires; rear 7.00 or 7.50 by 20-in. tires. Steel wheels—front 5 in. by 24 in.—rear 8 in. by 32 in. Ready for shipment about Oct. 1st. **Shipped from Factory** near Louisville, Ky. in about 7 days.

Type Wheels	4-Wheel Horse or Tractor Spreader: With Horse Hitch Art. No.	Price	Wt. Lbs	With Tractor Hitch Art. No.	Price	Wt. Lbs.	2-Wheel Tractor Spreader: Article Number	Wt. Lbs.	Price
Steel Wheels	287 A 8990	$154.50	1465	287 A 8991	$154.50	1440	287 A 6993	1210	$132.50
New Tires—Tubes	287 A 6988	209.50	1450	287 A 6989	209.50	1425	287 A 6992	1190	177.50
On Rims (No Tires)	287 A 6985	154.50	1315	287 A 6986	154.50	1290	287 A 6987	1090	137.50

287 A 6999—**Hand Brakes.** State if for steel or rubber tired wheels. Drum type. Ship. wt. 49 lbs. $9.95



One Horse Grain Drills

$33.95 Cash
Plain
$5 a Month
See Back Cover

Both plain and fertilizer type. Drill between corn rows and other row crops.

Feeds: Accurate single run, internal force feeds. Drills 34 to 42 in. wide.

Openers: Single disc, closed deliv.

Hoppers: Metal bound hardwood with ⅝ bu. (50 lbs.) grain capacity.

Wheels: 24 in. drive, 2 caster wheels on fertilizer, 10 in. front caster wheel on plain type drill.

Fertilizer Drill: Star finger feeds 80 to 1000 lbs. to acre. Wts. 369, 340 lbs.

Plain Drill: Orders filled at this price while limited stocks last. **Shipped from** Baltimore, Md. Pay freight from Baltimore.

187 A 7793—Fertilizer drill. **$67.75**

187 A 7792—Plain drill **33.95**

187A7794 Grass Seed Attachment. Wt. 15 lbs. **State type** $3.95



Trailer Type Lime Spreader For Wagon or Truck

$31.50 Cash
$5 a Month
See Back Cover

The high-speed, labor saving and low cost way to sow lime. The Trailer Spreader can be quickly attached to wagon, motor truck or trailer. One man feeds the sower with scoop while the other drives. It's always ready for use in a jiffy. Many dealers ask up to $38 for other leading makes of comparable quality.

Powerful double fan with gear drive. Sturdy steel wheels with deep biting spade lugs. No augers or spouts to clog. The positive agitator keeps fertilizer feeding. Sows damp or dry limestone, commercial fertilizers, marl, etc. Popular for spreading grasshopper bait and for spreading cinders or sand on icy roads or pavements.

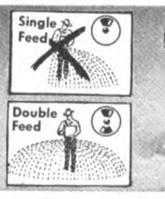
Sower has a capacity of 100 to 8000 lbs. of lime to the acre. Slide regulator for adjusting quantity. Spreads in a 16-ft. strip. Hopper is 36 in. wide. Control for putting sower in and out of gear. Alemite grease fittings. **Shipped from Factory** near Springfield, Ill. in about 5 days.

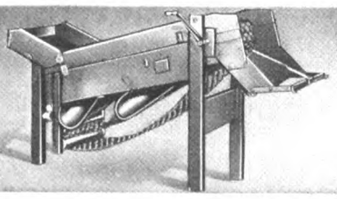
287 A 898—With steel wheels and lugs. Shipping weight 205 lbs. $31.50

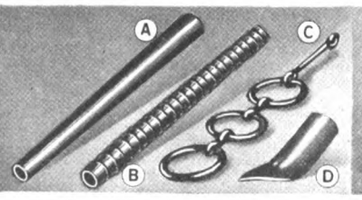
Use Your Old Auto Tires

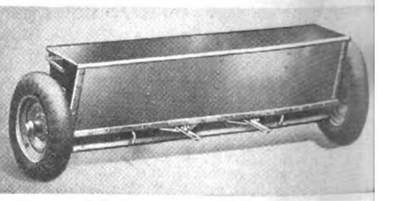
287 A 887—With drop center rims for any 5.50 or 6.00-16-in. tires (tires not included). Wt. 195 lbs. $32.50











Improved Double Feed Hand Seeders

$2.10 and Up

This new light weight, streamlined Seeder has gears fully enclosed—you can set it down without getting dirt in the gears (an exclusive feature).

Both seeders have double feed (see small pictures). The double feed assures uniform broadcast at front and to sides (not to one side like single feed). They broadcast grass seed 10 to 18 ft., grain 18 to 25 ft. Sow up to 50 acres of seed per day.

587 A 147—¾ bu. formed metal hopper (pictured). Carrying strap. Ship. wt. 9 lbs. $4.10

587 A 143—½ bu. hopper of 8-oz. canvas. Exposed gears. Carrying strap. Ship. wt. 4 lbs. 8 oz. $2.10

Double Chain No. 3 Potato Grader

$52.95 Cash
$5 a Month
See Back Cover

Separates into Gov't. No. 1 and 2 grades. Eliminates dirt and culls. Top endless chain belt 1¾ in., second 1½ in. mesh. For 1⅞ or 1¹³⁄₁₆ in. top or 1 in. second belt, **state on order. Shipped from Factory** in St. Paul, Minn. in about 5 days.

287 A 9254—Ship. wt. 225 lbs. $52.95

Single Chain No. 2 Sorter

Grades Gov't. No. 1 eliminates No. 2, dirt and culls. 1¾ in. mesh belt. **State** if 1½, 1¹³⁄₁₆ or 1⅞ in. mesh is wanted.

287 A 9253—Ship. wt. 125 lbs. $29.95

Ⓐ Rubber Tubes—For any drill using sizes below. Wt. 8 oz.

Art. No.	Size In.	Ea.
87A44	15½ x 1½ x ¾	21c
87A43	18 x 1½ x ¾	26c
87A45	20 x 1⅝ x ¾	26c
87A50	20 x 1⅞ x ¾	27c
87A46	22 x 1⅝ x ¾	28c
87A42	22 x 1⅝ x 1½	30c
87A47	22 x2 x1	31c
87A48	24 x 1⅝ x ⅞	33c
87A49	24 x2 x1	34c
87A41	24 x2 x1¼	35c

Ⓑ Flex. Steel Tube 18½ in. 1¼ to 1⅜-in. top, 1-in. bot. **87A130** Wt. 1 lb. **19c**

Ⓒ Drill Chains Three 3-in. rings, hook. Wt. 1½ lb. **87 A 125**—Ea. .19c **87 A 126**—2-Ring. Wt. 1¼ lb. Each. **14c**

Ⓓ Blank Points Fit 8 hole or larger drill. Wt. 12 oz. **87 A 129**—Ea. .17c

All Steel Broadcast Lime Sower

$54.95 Cash
$5 a Month
See Back Cover

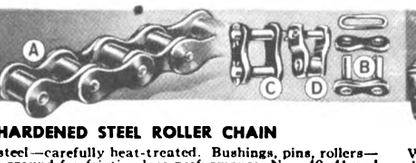
Agitator on axle. (Drive throw-out device). Two-piece axle—sows half width if wanted. Sows 200 to 8000 lbs. of lime to the acre. 12-Bushel 16 ga. steel hopper. 8 ft. wide. Horse hitch regularly furnished. **State** if tractor hitch is wanted. **Shipped from** Factory near Rochester, N. Y. in about 7 days.

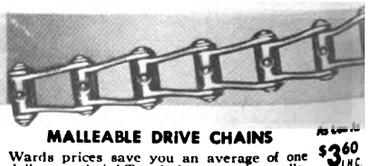
287 A 9868—With steel wheels (not pictured) 36 in. high, 4-in. rims. Ship. wt. 425 lbs. $54.95

287 A 9869—With disc wheels for 6.00 or 6.50 x 16-in. auto tires (without tires). Wt. 425 lbs. $55.95

287 A 9872—**Upper Agitator** for damp limestone. Extra wt. 30 lbs. **State and add** $7.95







STEEL — DETACHABLE LINK CHAIN BELTING — MALLEABLE

As Low As **15c** Ft.

Each link is detachable. **State Article Number and Link Number on Old Chain.** Prices in table below are per foot. NOTE: Steel chain "D" replaces malleable links Number 11 630. Steel chain "M" replaces malleable No. HA567. Malleable No. 52½ heavy replaces No. 52½.

Link No	Links Per Ft	Wt Oz	Malleable Article No	Ft	Steel Article No	Ft
2A	7 4	32	687A246	35c	.....	...
7	7 4	32	687A247	38c	.....	...
25	13 3	5	687A207	19c	687A264	15c
32	10 4	6	687A209	20c	687A265	16c
33	8 6	8	687A210	20c	.....	...
34	8 6	9	687A213	22c	687A266	18c
42	8 8	12	687A217	22c	687A267	19c
45	7 4	11	687A219	22c	687A268	18c
51	10 4	16	687A218	28c	.....	...
52	8 0	24	687A220	27c	687A269	23c
52½ Hvy	7 9	20	687A211	38c	.....	...

Link No	Links Per Ft	Wt Oz	Malleable Art No	Ft	Steel Art No	Ft
55	7 4	16	687A221	23c	687A270	20c
57	5 2	16	687A212	30c	.....	...
057	7 4	16	687A214	29c	.....	...
62	7 3	24	687A223	32c	687A271	27c
062	7 3	24	687A215	42c	.....	...
67	5 2	24	687A222	35c	687A272	30c
72	5 9	24	.....	...	687A276	45c
072	7 3	40	687A225	60c	.....	...
72½	7 3	40	687A226	65c	.....	...
75	4 6	24	687A216	40c	.....	...
76½	5 9	32	.....	...	687A275	42c
77	5 2	32	687A224	42c	687A278	35c
D	7 3	20	.....	...	687A273	55c
M	5 6	22	.....	...	687A274	45c

1142 WARDS BA

Be Sure To State Link No.

HARDENED STEEL ROLLER CHAIN

High quality steel—carefully heat-treated. Bushings, pins, rollers—machined and ground for friction-less performance. Nos. 40, 41 and 50 riveted style only with (B) spring clip connecting links; Nos. 60 and 80 riveted or cottered style with (C) cottered connecting link. 1 connecting link with each 10 feet of chain. (D) off et links for shortening or lengthening chain. Note: Pitch is distance from center to center of rollers. **State Number on Chain, Length, and whether Cottered or Riveted.**

Article Number	Chain No.	Dimensions Roller In. Pitch	Width	Diam	Links Per Ft	Oz. Per Ft	(A) Per Ft	(B) (C) Links Ea	(D) Offset Links Ea.
687 A 184	40	½ in	5/16 in	5/16 in	24	8 oz.	78c	10c	27c
687 A 185	41	½ in.	¼ in	19/64 in	24	5 oz.	40c	5c	20c
687 A 186	50	⅝ in	3/8 in	½ in	19.2	11 oz.	85c	10c	27c
687 A 187	60	¾ in	½ in	15/32 in	16	16 oz.	$1.00	12c	40c
687 A 188	80	1 in	5/8 in	⅝ in	12	25 oz.	1.80	20c	60c

Chain Detacher for Any Size or Type Steel Link Chain

Ⓝ No struggling with new or tight chain. Take it with you—repair chain quickly in the field—or still on the sprocket. Link fits and is held in right slot—a blow or two knocks it apart or together.

87 A 9012—Detacher. Ship. wt. 3 lbs. 4 oz. 98c

MALLEABLE DRIVE CHAINS

As Low As **$3.60** I.H.C.

Wards prices save you an average of one dollar per chain! Tough, long-wearing malleable—the iron made to resist sharp jolts and heavy strains by the careful compounding of top grade materials. Accurately machined and ground for perfect fit and performance.

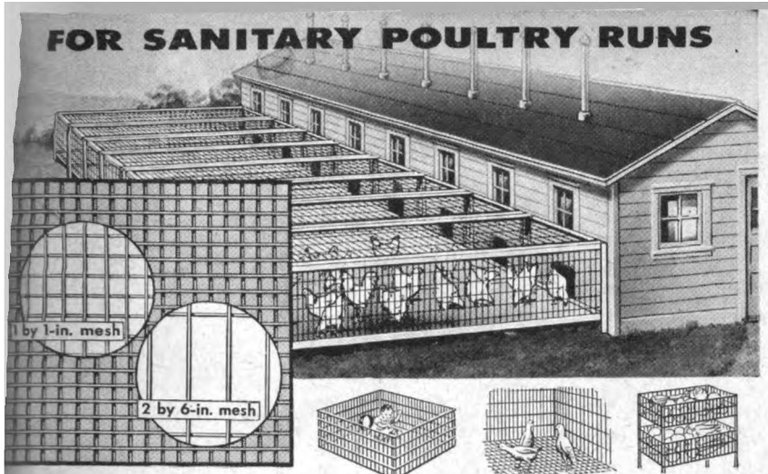
587 A 204—State Link No. and Number of Links.

NOTE: HA567 is stronger to replace H567; H4hvy replaces lighter links marked H4.

Complete Chains	Links	Link No.	Ship. Wt.	Price
I.H.C. Binder	43	HA567	18 lbs.	$5.35
I.H.C. Binder	42	HA567	18 lbs.	5.10
I.H.C. Corn Binder	32	HA567	13 lbs.	3.85
I.H.C. Spreader	58	H4hvy.	19 lbs.	6.00
New Idea Spreader	53	H4hvy.	17 lbs.	5.35
Emerson Spreader	52	H4hvy.	17 lbs.	5.25
Deere, Corn or Grain Binder	56	H236	17 lbs.	6.10
I.H.C. and other Binders	55	H630	17 lbs.	6.00
I.H.C. and other Binders	43	HD55	10½ lbs.	3.60
I.H.C. and other Binders	54	HD55	12 lbs.	4.50

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FOR SANITARY POULTRY RUNS



Play Yards | Poultry Floors | Fruit Stands

Hot-Dipped Zinc Galvanized Welded Wire Fabric

As Low As **8 1/2 c** ft.

- Has hundreds of uses for farm, home, yard, garden, estate, and animal raisers.
- Extra strong copper bearing steel wire welded at every contact of cross wires.

Actually a 1-piece "sheet" of wire mesh—because it's welded where every wire crosses. The welded copper bearing steel wire and the hot dipped zinc galvanizing produce strong, rigid fabrication.

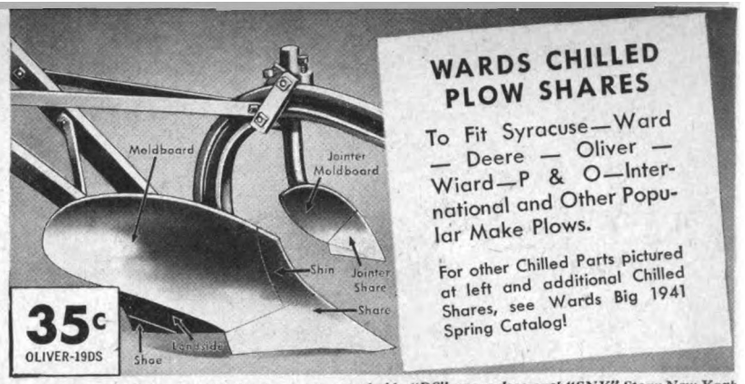
The smooth surface provides most cleanliness, most sanitation—no twists or joints to trap dirt or cause injury. Use it to make trash burners, tree and shrub guards, window guards, trellis, waste baskets, animal pens, etc.

Easy to work with. Outlasts ordinary fabric 2 to 1 because it is DOUBLE RUST-RESISTING just like Wards fencing.

Cut lengths are shipped from stock. 100-ft. rolls from Factory near Pittsburgh, Pa. in about 14 days.

Be sure to state height of wire wanted when ordering at right.

Article Number	Vert. Wires Spaced	Horiz. Wires Spaced	Gauge Wire	Ht. In.	Wt. Per 100 Ft.	Per Ft.	100-Ft. Roll
187 A 9597	1-in.	1-in.	16	36	76 lbs.	18c	$16.95
187 A 9590	1-in.	1-in.	14	24	80 lbs.	17c	15.95
				36	120 lbs.	25½c	23.80
187 A 9591	1-in.	1-in.	12½	24	127 lbs.	22½c	21.20
				36	190 lbs.	33½c	32.10
187 A 9592	1-in.	2-in.	14	24	61 lbs.	9c	8.45
				36	92 lbs.	16c	14.85
				48	123 lbs.	20½c	19.78
				60	154 lbs.	25c	23.60
187 A 9593	1-in.	2-in.	12½	24	96 lbs.	15½c	13.88
				36	145 lbs.	22c	20.65
				48	193 lbs.	29c	27.35
187 A 9594	1-in.	4-in.	14	36	75 lbs.	16c	14.85
				60	125 lbs.	24c	22.65
187 A 9595	1-in.	4-in.	11	36	175 lbs.	27c	25.10
				60	292 lbs.	44½c	42.50
187 A 9596	2-in.	6-in.	11	36	97 lbs.	14c	13.35
				48	130 lbs.	19c	17.58
				60	162 lbs.	24c	22.65



35c OLIVER-19DS

WARDS CHILLED PLOW SHARES

To Fit Syracuse—Ward—Deere—Oliver—Wiard—P & O—International and Other Popular Make Plows.

For other Chilled Parts pictured at left and additional Chilled Shares, see Wards Big 1941 Spring Catalog!

Deep Chilled Shares Only

Guaranteed to fit. Made from high grade cast iron and deeply chilled on the nose and edge for greater hardness and longer wear. These are exact duplicates of originals and are carefully inspected at the factory to insure perfect fit.

FOR PERFECT FIT

1—**State** article no. for right or left hand share.

2—**State** make of plow.

3—**State** name of part and numbers and letters appearing on old part. Be sure numbers are same as in listing.

Use Your Credit!

Order all the shares and other repair parts you'll need for the coming season now! By putting them all on one order you can use Wards Time Payment Plan. See Inside Back Cover for details.

"QD" means quick detachable. "DS" means deep suck "SNY" Stony New York

Part Number	Part Name	Wt. Lbs.	487 A 73 Right	487 A 74 Left
FIT OLIVER AND WARD				
AC-DS	Share	4¼	17c	....
BC-DS	Share	5¾	22c	....
Goober DS	Share	4½	11c	....
6-DS	Share	3¼	11c	....
10-DS	Share	5¾	25c	....
13-DS	Share	6½	33c	33c
19-DS	Share	7½	35c	35c
20-DS	Share	8¾	45c	45c
40-C	Share	9	45c	55c
40-DS	Share	10¼	59c	59c
82-DS	Share	8¼	45c	....
82-XC	Share	9	50c	....
83-11-XC	Share	12¼	60c	60c
83-DS-10-X	Share	11¼	55c	55c
83-DS-11-X	Share	12¼	65c	65c
84-88-KDS-11-X	Share	14½	75c	....
84-88-DS-12X	Share	13	69c	69c
84-88-DS-12	Share	13½	59c	....
84-88-DDS-12S	Share	11¾	70c	....
84-88-SNY	Share	12	70c	....
84-DS-14	Share	14¾	75c	75c
141-12-DS-QD	Share	15½	90c	....
141-14-DS-QD	Share	19½	$1.20	$1.20
221-X-12-DS	Share	10¾	80c	....
404-C	Share	8½	60c	60c
NC-23-12QD-DS	Share	16¼	$1.00	...
NC-23-14QD-DS	Share	16½	1.15	...
NC-23-16QD-DS	Share	17	1.45	....
E-DS	Share	10½	55c	49c
153-(Hill)	Share	5¾	40c	....
155-(Hill)	Share	9	50c	....
512-XDS (Hill)	Share	9½	65c	....
513-524-XDS10	Share	10½	65c	....

Part Number	Part Name	Wt. Lbs.	487 A 73 Right
FIT INTERNATIONAL			
CP-6002-DS	Share	10¾	70c
CP-6007-DS	Share	11¼	75c
FIT P. & O. PLOWS			
462-QD	Share	15½	$1.15
FIT SYRACUSE PLOWS			
1-1878	Share	9¼	55c
2-1878	Share	8	50c
2-1878-Slip	Share	9¾	50c
604-464-1464-P-DS	Share	8¾	35c
702-14-16 (Hill)	Share	12¾	70c
FIT FERGUSON PLOWS			
10-B-1	Share	8¼	90c
12-B-1	Share	8¼	90c
14-A-1	Share	13	$1.05
A0121-14" Ford	Share	14	1.10
FIT WIARD PLOWS			
43-44	Share	9	50c
526	Share	12¾	65c
1526	Share	13	75c
FIT DEERE (SYRACUSE)			
X-1441-DS-F	14 in Sh	10½	70c
1442-DS-HF	12 in Sh	9¼	55c
X-1442-DS-QD	12 in Sh	9¼	60c
C-215-A-DS-QD	Share	12¾	$1.05
C-217-DS-QD	Share	18¼	1.15

HOG SUPPLIES



Stock Waterer $2.39

Automatic! For hogs, sheep, calves, etc. Fresh water any time. Cast iron cup 7 by 14 by 4 in. deep. For tank or barrel. Takes but one hole for ¾-in. pipe. Automatic brass valve and copper float. Gaskets, nipple and strainer included. *Mailable.*

487 A 3306—Wt. 12 lbs. **$2.39**

Seamless Troughs — Low As 74c

1-pc. 24-ga. galv. body—no soldered seams to break. Riveted cross piece and ends. Troughs 5 in. deep and 12 in. wide. *6-ft. Not Mailable.*

Article Number	Lgth. Feet	Wt. Lbs.	Price Each
487 A 3338	2	7	74c
487 A 3339	4	12	$1.34
187 A 3340	6	16	1.79

Seamless Hog Pans — Low As 27c

1-pc. 24-ga. galvanized steel—no seams or soldering. Corrugated for strength. Diam. 16 in. at top, 14 in. at bottom. 3½ in. deep. *Mailable.*

487 A 3324—Wt. 3 lbs. Each.....27c
6 for.....$1.50

Heavier 22-Gauge Pans

Same as above but heavier steel.

487 A 3326—Wt. 4 lbs. Each.....31c
6 for.....$1.74

Ⓐ Dependable Hill Pattern Malleable Ringer and Rings

Adjustable with set screw. Closes all sizes of Hill Pattern rings.



87 A 3514—Ship. wt. 9 oz.....15c

Pkg. 100 Hill Pattern Rings

Copper plated steel. Wt. pkg. 10 oz.

87 A 3515—**For Pigs.** 1 Pkg.....8c
Six packages.....44c

87 A 3516—**For Shoats.** 1 Pkg.....8c
Six packages.....44c

87 A 3517—**For Hogs.** 1 Pkg.....8c
Six packages.....44c

Ⓑ Fish Hook Pattern Ringer

Closes hog and pig Fish Hook pattern rings. Malleable iron.

87 A 3518—Ship. wt. 12 oz.....18c

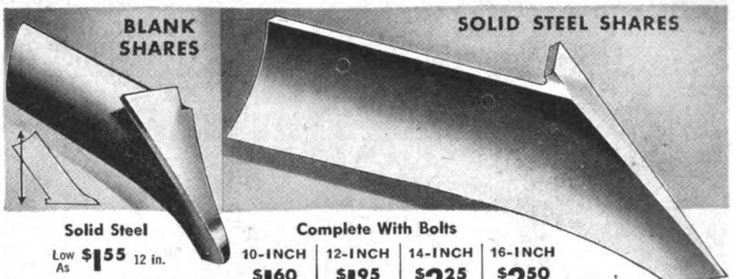
Pkg. 100 Fish Hook Pattern Rings

Copper plated steel. Needle point. Ship. wt. per package, 12 oz.

87 A 3519—**For Hog.** 1 Package..14c
Six Packages.....79c

87 A 3520—**For Pig.** 1 Package.....14c
Six Packages.....79c

BLANK SHARES — SOLID STEEL SHARES



Solid Steel

Low As **$1.55** 12 in.

In solid steel and right hand only. Wards Blank Shares stay sharper and last longer than ordinary shares because they have the same Tool Steel Point as described at right. Shares are ¼ in. thick.

Wards blank shares are sharpened but not drilled. Use your old share for pattern to drill. Bolts not included with share.

487 A 63—12-in. size. Ship. wt. 11 lbs.....**$1.55**

487 A 64—14-in. size. Ship. wt. 12 lbs.....**$1.80**

Add extra shares to your Time Payment Order and pay by the month—see Back Cover!

Complete With Bolts

10-INCH	12-INCH	14-INCH	16-INCH
$1.60	$1.95	$2.25	$2.50
Wt. 10 lbs.	Wt. 10 lbs.	Wt. 12 lbs.	Wt. 14 lbs.

Tool Steel Point—forged on! Right at the point of greatest wear. Far harder than point on any ordinary shares. Stay sharp longer—last longer. We will replace any Ward solid steel share that breaks under any plowing condition. *Bracketed numbers are interchangeable.*

487 A 77—See "For Perfect Fit" above when ordering.

For Moline		For Oliver or Ward		For Emerson		462QD..14-in.
BB10.....10-in.		31X.....10-in.		N12R...12-in.		446QD..14-in.
BB12.....12-in.		33X.....12-in.		N14R...14-in.		For Deere
CY121 } 12-		4674QD } 12-		For I. H. C.		215QD }
CY121QD } in.		NC23QD } in.		(Canton, P & O, Hamilton)		268QD } .12-in.
CY141 } 14-		4675QD } 14-		264.....12-in.		325QD }
CY141QD } in.		NC23QD } in.		266.....14-in.		217QD }
CY142QD 14-in.		6197QD } 16-		454QD..12-in.		207QD } .14-in.
DW14.....14-in.		NC23QSQD } in.		0552QD.12-in.		321QD }
DW141 } 14-		NC23.....12-in.		0554QD.14-in.		266QD }
DW141QD } in.		NC23.....14-in.		0560QD.14-in.		221QD..12-in.
T14.....14-in.						223QD..14-in.

Wards Furnace Caldrons



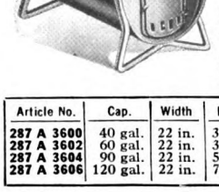
Low As **$19.95** Cash

$3 A MONTH

Used for cooking feed, rendering lard, etc. Burns cobs, wood or coal. Drum of heavy boiler steel. Caldron and stove are cast iron. Tight fitting doors. Requires 6 in. pipe. Coal grates are extra and weigh 27, 30, 32, 45 and 65 lbs. **Shipped from Factory** near Toledo, Ohio in about 4 days.

Article Number	Trade Rate	Actual Cap.	Ship. Wt. Lbs.	Cooker	Coal Grate
287 A 3500	18 gal.	15 gal.	175	$19.95	$3.95
287 A 3501	22 gal.	18 gal.	230	20.45	4.45
287 A 3502	30 gal.	26 gal.	270	24.95	4.65
287 A 3503	45 gal.	36 gal.	345	27.45	5.95
287 A 3504	60 gal.	47 gal.	420	31.95	7.85

Feed and Water Heaters



Low As **$20.50** Cash

$3.50 A MONTH

Body: Heavy 16-ga. steel. **Boiler:** 20-ga. galvanized steel. Four strong handles firmly riveted—won't rip out. Channel iron legs. Grate suitable for wood, cobs or coal. With one joint of 6-in. pipe and elbow. Wts. 145, 160, 210 and 250 lbs. **Shipped from** near Dayton, Ohio in about 4 days.

Article No.	Cap.	Width	Lgth.	Depth	Each
287 A 3600	40 gal.	22 in.	30 in.	14 in.	$20.50
287 A 3602	60 gal.	22 in.	36 in.	17 in.	23.25
287 A 3604	90 gal.	22 in.	54 in.	17 in.	27.45
287 A 3606	120 gal.	22 in.	70 in.	17 in.	29.75





Single or Duplex Beam—All Steel!

Single Beam **$24.95** Cash — $3.50 a Month

No wood to warp, crack or alter exactness. Heavy metal bases, steel clad platforms. Heavy cast wheels. Rust-resisting, copper-alloy steel pillars. Solid brass beams have raised figure; and notched graduations; beveled "no-stoop" sliding poise.

Single Beam: Parkerized (rustproof). Counterpoise weights, stem, cup and bearings.

Duplex Beam: No counterpoise weights to lose or change—fractional readings to ¼ lb. on beam. Parkerized loops, bearings and nose irons. **Shipped from Factory** in Boston, Buffalo or Philadelphia, in about 10 days.

Cap. Lbs.	Platform Inches	SINGLE BEAM Art. No.	Lbs.	Price	DUPLEX BEAM Art. No.	Lbs.	Price
500	16 by 25	287 A 6335	175	$24.95	287 A 6337	175	$32.95
1000	18 by 20	287 A 6336	190	28.95	287 A 6338	200	38.95

5-Ton Pit Type Wagon and Truck Scale

Meets All State Law Requirements! U. S. Standard Compound full cap. beam with roller bearing poise! Platform 8 by 14 ft. has 26-inch beam box and weigh beam. Easy to install—Foundation Plan included! *Wood Construction:* Uses timber cross members and joists (not included). Should have 32-in. pit. *Steel Construction:* Needs pit only 16-in. deep. 2 steel joists furnished. **State type. Shipped from Factory** near Kansas City, Mo. in about 10 days. *But this is only one of the models in Wards complete line of Truck and Wagon Scales!* For complete description of this and others, write for FREE Truck Scale Circular—*Capacities up to 30 tons at real savings!* See Inside Back Cover for Time Payment Plan.

Wood Type **$79.50** Cash — $7 A Month

287 A 6355—**Wood Type.** Wt. 650 lbs. . **$79.50**
Steel Type Scale. Ship. wt., 800 lbs. .. 109.50

CLIMAX—Quick-Heating Cookers for Lard, Scalding and Soap

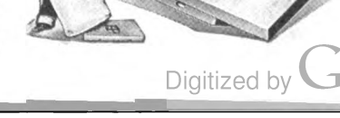
$8.95 15-Gal. For Outdoor Use!



Save 30% at Wards. Strong cast iron kettles. Reinforced heavy 16-ga. steel jacket without bottom. 10½ by 14-in. fire door. Coal grates, pipe, elbow and damper listed below. No grate needed for wood or cobs. Two largest sizes take 7-in. pipe, others, 6-in. Kettles 13½, 15, 15¼, 18, 19, 21½, and 23 in. deep respectively. **Shipped from Factory** near Dayton, O. in about 4 days. **State size and actual capacity.**

Specifications: Actual Cap. Gal.	Trade Rating	Height	Circumference Inches	Complete 287 A 3521 Ship. Wt. Lbs.	Each	Kettles Only 287 A 3522 Ship. Wt. Lbs.	Each	Jackets Only 287 A 3523 Ship. Wt. Lbs.	Each
15	18 gal.	26 in.	65	110	$8.95	75	$4.10	55	$5.95
18	22 gal.	26 in.	76½	150	11.75	100	5.95	57	6.75
26	30 gal.	28 in.	86½	170	15.25	120	7.75	69	7.95
36	45 gal.	28 in.	92	200	16.50	150	9.10	71	8.95
47	60 gal.	28 in.	101	275	18.45	210	10.50	76	9.15
64	75 gal.	30 in.	115	375	21.95	315	12.95	92	10.45
75	100 gal.	30 in.	115	400	25.75	340	13.95	97	11.95

287 A 3524—Coal Grate. **State size,** *15 to 47 gal.* Wt. 65 to 75 lbs. **$4.75**
287 A 3524—Coal Grate. **State size,** *64 and 75 gal.* Wt. 100 lbs.. 6.65
M287 A 3528—Elbow, joint of 6-in. Pipe, Damper Wt. 3 lbs....85c
M287 A 3529—Elbow, joint of 7-in. Pipe, Damper. Wt. 4 lbs...$1.25



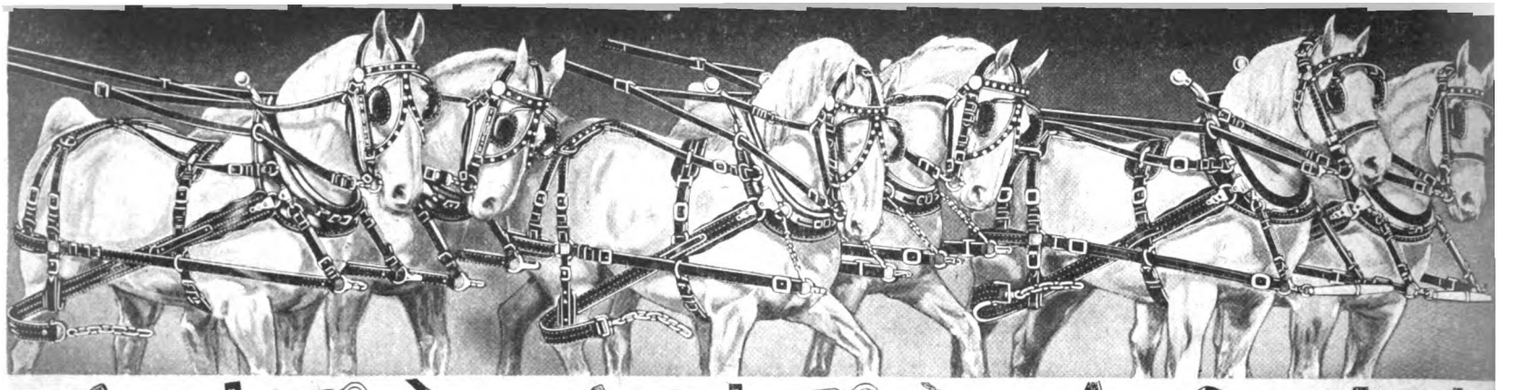
Each **$4.85**

Wards LO-LOAD Utility Scale

Only Two Inches High! You don't have to lift anything—merely, slide it on the scale! Weighs cream cans, crates, barrels, bags of feed—anything up to 250 lbs. Extra large 10½ by 16-inch platform with recessed dial gives greater ease in weighing bulky objects. Manual dial-lock records weight when dial is covered—you read wt. later. Adjusts for net or gross weight. Has rust-proof cadmium finish—use it in the home, too, for kitchen or bathroom scale. Gives accurate weight and costs you $2 to $3 less than ordinary scales. Not legal for trade. *Mailable.*

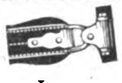
587 A 3319—Ship. wt. 8 lbs. 12 oz.....**$4.85**

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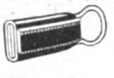




Bridles—¾-in. box loop cheeks.



Traces—jointed attachment.



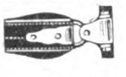
2¼-in. folded body breeching.



Sidebackers 1¾-in. Sewed-in snaps.



Spaced loop cheeks on bridles.



Jointed attachment on traces.



Single ply breeching with layer.



1½-in. wide sidebackers. Ring snap.



Folded ring crown style bridles.



Tough black japanned hardware.



Folded leather body breeching.



Traces have metal attachment. 3-ply.

$64.95 Cash — Wards Master Quality Harness

$6 Down, $6 Month

See Inside Back Cover

- **Favorite Keystone State (Sidebacker) Style.**
- ***Wards*** **AAA** ***Quality*** **Black Steerhide Leather.**
- **Adjusts for Horses or Mules to 1850 lbs.**

For longest service on extra heavy work—logging, stump pulling, road construction, excavating as well as the tougher teaming and farming jobs. Built especially for particular harness buyers who want a bigger, finer set of Harness with all the strength features of custom-made sets selling for much more. The Master Quality Harness is Wards idea of everything a fine harness set should be. It is carefully built by a famous harness manufacturer to these exacting standards:

Hardware—Triple coated Black enamel—extra rust resisting.

Bridles—1½-in. single crown. Embossed box loop cheeks. Gag swivels for the flat reins. Check over hames. Concord blinds.

Breeching—Folded body, leather filled. Divided back strap style. 1½-inch hips. Wide reinforcing layer. Large breeching dees.

Traces—Bolt style with jointed metal attachment. 6 ft. 3 inches long; 3 matched plies running full length of trace. Swivel end heel chains. For hook end heel chains specify and add 50c.

Lines—Popular snap style, 6-ft. (regular) inside checks. 1⅛ inches wide by 20 ft. long. Metal to metal buckles.

Bellybands—Large 2-in. folded body with 1½-inch layers.

Sidebackers—1¾ in. wide with 1¼-in. carrying straps. Sewn-in front snaps, roller buckle adjustment at breeching.

Backpads—Double and stitched body. 1½-in. layer and market strap.

Hames—Bolt style. Tubular steel. Fit collars to 22 in.

Collars and hitch reins not included. **State trace width.** Priced per set (2 horses). Shipping weight 99 lbs. *Not Mailable.*

187 A 618—With 1½-inch traces. Per set.....**$64.95**
With 1¾-inch traces.... **$66.95**; With 2-in. traces..... **68.95**

287 A 619—As above but has clip style hames, traces. If wanted with hook end heel chains specify and ADD 50c. **Shipped from** near Chicago in abt. 10 add'l. days. **State trace width.** Wt. 99 lbs. With 1½ inch wide traces. Per set (2 horses).....**$63.95**
With 1¾-in. traces. Per set...**$65.95**; 2-in. traces. Set.... **67.95**

$57.95 Cash — Wards Superior Quality Harness

$5 Down, $6 Month

See Inside Back Cover

- **Popular Empire State (Sidebacker) Style.**
- **Cut From** ***Wards*** **AA** ***Quality*** **Black Leather.**
- **Adjusts for Horses or Mules to 1800 pounds.**

Built for long, dependable service on heavy farm and teaming work—pulling binders and combines, breaking land, hauling heavy farm loads. Second in strength and durability *only* to Wards Master Quality Harness sets. Match it against the best sold elsewhere; compare its size, check the specifications, find out for yourself just exactly what makes this an outstanding buy in quality Harness. And remember—it's built by a harness manufacturer who is nationally famous for careful workmanship and quality.

Hardware—Heavy duty, rust resisting triple coated Black enamel.

Bridles—1½-inch flat crown. ⅞ inch wide, spaced loop cheeks. Gag swivels. Reins check over hames. Heavily spotted on front and browband. Concord style cupped blinds, well stitched.

Breeching—Divided back strap, single strap body, 3 in. wide. 1½-in. wide reinforcing layer. 1½-in. reverse back and hips.

Traces—Three plies full length. Each ply is matched so that strains are equally distributed. Jointed metal attachment. 6 ft. 3 in. long. Swivel heel chains. For hook end heel chains specify and add 50c.

Lines—Snap style, metal to metal buckles—reduce strap wear. 6-ft. (regular) inside checks. 1⅛ in. wide by 20 feet long.

Bellybands—Heavy 2-inch folded with leather layer. 22 in. long.

Sidebackers—1¾ in. wide. No pole or breast straps.

Backpads—Full length layer. Double and stitched body.

Hames—Bolt style. Black enameled tubular steel. Fit collars to 22 in.

Collars and hitch reins not included. **State trace width.** Priced per set (2 horses). Shipping weight 93 lbs. *Not Mailable.*

187 A 612—With 1½-in. traces. Per set.....**$57.95**
With 1¾-in. traces.....**$59.95**; With 2-in. traces..... **61.95**

287 A 613—As above but with clip style hames and traces. If wanted with hook end heel chains specify and ADD 50c. **Shipped from** near Chicago usually in 10 add'l. days. **State trace width.** Wt. 93 lbs. With 1½-inch wide traces. Per set (2 horses).....**$56.95**
With 1¾-in. traces. Per set....**$58.95**; 2-in. traces. Set..... **60.95**

$49.95 Cash — Wards Standard Quality Harness

$5 Down, $5 Month

See Inside Back Cover

- **Cut From** ***Wards*** **A** ***Quality*** **Black Leathe**
- **Adjusts for Horses or Mules to 1750 pound**
- **1½-in. Sidebackers—No Pole or Breast.**

Wards believe this is the lowest price at which yo can buy good quality Harness. Made by a wel known manufacturer to give many years of satisfactory service.

Bridles—1½-in. folded ring crown. ⅝-in. cheeks. Flat reins.

Breeching—Heavy folded body, 2¼-in. wide. Reinforcing layer.

Traces—3 full-length plies. 6 ft. 3-in. long including attachment.

Lines—1⅛ in. by 18 ft. Metal to metal buckles. Sewed and riveted.

Bellybands—2-inch folded leather filled body. 1¼-inch layer.

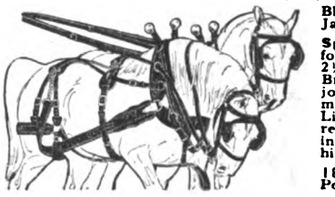
Yokes, Collars and hitch reins not included. Priced per set (2 horses).

187 A 628—Ship. wt. 86 lbs. **State trace width.** *Not Mailable.*
With 1½-in. traces.....**$49.95**; With 1¾-in. traces.....**$51.75**

187 A 625—Divided Backstrap Style. (Not illustrated.) As above but no sidebackers. 1½-in. wide breast straps. 4½ ft. long. Pole straps Shipping weight 84 pounds. **State trace width.** *Not Mailable.*
With 1½-inch traces.....**$47.95**; With 1¾-inch traces.....**$49.75**

$39.95 Cash — WARDS ECONOMY QUALITY HARNESS

- **Divided Back Strap Style—1-inch Back, Hips**



Black steerhide leather Japanned hardware.

Specifications: 1½-in folded ring crown Bridles 2¼-in. folded leather Breeching—3-ply Traces jointed metal attachment. 1-in. by 18 ft. Lines, snap style 1½-in reinf. Breast strap 1½ in. Traces. No collars or hitch reins. *Not Mailable*

187 A 581—Wt. 81 lbs. Per set (2 horses).**$39.95**

Boston Truck Style



- **Wards A Quality Black Steerhide Leather.**
- **Black Japanned Hdwe.**

Built like a champion throughout. Big three-ply traces with each ply matched — 8 handsome embossed box loop lead ups on every set—stitching done with waxed Irish linen thread.

Specifications: Box loop check style Bridles with 1½-in. crown. Three ply Traces—malleable iron loop in center—3-row stitched. Swivel heel chains with hook. 2¼-in. folded body Breeching, embossed box loop lead ups. Padded style Rump Pads—divided back straps, 1 in. by 18 ft., buckle and billet style, Lines. Short Sidebackers, 1½-in. wide sturdy front snaps. Bolt style, Red Concord wood Hames. Collars and hitch reins not included.

187 A 602—2x1¾-in. Traces. Adj. for Horses or Mules up to 1750 lbs. Wt. 95 lbs. *Not Mailable.* Set...**$69.95**



Single Farm Harness

For horses up to 1350 lbs. Black leather. 1½ in. by 6 ft. traces. No collar. Wt. 33 lbs.

487 A 476—With bolt hames.....**$28.50**

487 A 477—With clip hames..... **28.25**



Buggy Harness

For horses up to 1300 lbs. Nickeled hardware. Black.

487 A 566—Wt., 28 lbs. Each.....**$24.95**

Black Pony Harness

Fits 300 to 400-lb. ponies. Open style bridle. Ship. wt. 12 lbs.

487 A 565—Ea.**$19.75**



Goat Harness

Russet leather. Steel bit. Traces 39in.long, 1 in. wide. Ship. wt. 3 lbs. 4 oz.

87 A 555—Ea.**$5.25**

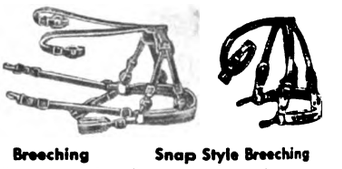
Dog Harness

Russet leather. No bit. Traces 39x⅞ in. Ship. wt. 3 lbs. 4 oz.

87 A 554—Ea.**$4.25**



You'll Find More Harness Styles — also a larger assortment of strapwork, collars, etc. in Wards 1941 Spring and Summer Catalog. Refer to it for your needs.



Breeching

Black. Divided back. 2½-inch body. Adjust. Wt. 9 lbs.

587 A 5454—1-in. back and hips. Ea.**$7.95**

587 A 5455—1½-in. back, hips. Ea.**$8.45**

Snap Style Breeching

Black. Single back strap hames. Folded 1⅛-in. body with layer. Snaps for traces Wts. ea. 10, 10, 11 lbs.

Article Number	Hips	Back	Price Each	Set 2
	in.	in.		
87A1583	⅞	1	$3.95	$7.70
87A1584	1	1½	4.50	8.80
87A1585	1¼	1¼	4.90	9.75



$1.75 Ea.

Bargain Priced Bridle

Wards **A** Quality Black steerhide leather. Japanned buckles. Concord blinds. Single strap crown.

Medium Weight: 1⅜-inch crown, ⅜-in. cheeks, ¾-in. browband and reins. Shipping weight 3 lbs.

87 A 1462—Each.....**$1.75**

Heavier Weight: 1¾-inch crown, 1¼-in. cheeks, 1-in. browband, ⅝-in. flat winker braces and ⅜ in. reins. Shipping weight 4 lbs.

87 A 1463—Each.....**$2.10**



$4.98 Ea.

Split Flat Crown

Wards **AA** Quality Black leather. Japanned hardware.

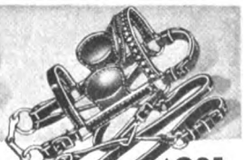
Crown—1½-in. single strap. Gag swivels.

Cheeks—⅞-in. double.

Blinds—Concord style. Round brace. Brass spots on front. Jointed bit. Noseband brace. Ship. wt. 4 lbs. 12 oz.

87 A 5534—⅞-in. flat side reins. Each.....**$4.98**

87 A 5533—Round side reins. Each.....**$5.35**



$3.95 Ea.

Folded Ring Crown Bridle

Crown—1½-inch folded with 1-inch layer.

Cheeks—⅞-inch double.

Blinds—Concord style. Jointed bit. Blind and winker brace loops on **AA** Qualities only, cut from Wards Black steerhide harness leather. Ship. wt. each 5 lbs.

Long Round Reins and Swivels

Article No	Leather	Hardware	Each
87A5528	A	Japanned	$3.95
¾-in. Flat Reins—No Swivel			
87A5530	AA	Triple Blk	$4.25
87A5531	A	Japanned	3.25



Low As 49c for 4

Wards Black Steerhide Hame Straps

Wards AA Quality—Cut from Wards Superior Quality leather. Riveted-in twin metal loops with roller buckles. Ship. wt. pair, 1 lb.

87 A 1535—1 in. by 24 in. Ea. .30c; Pr. .58c
87 A 1541—1 in. by 27 in. Ea. .34c; Pr. .66c
87 A 1531—1 in. by 30 in. Ea. .38c; Pr. .74c

Wards A Quality Straps—Cut from Wards Standard Quality leather. One-piece iron loops. Roller buckle. Shipping weight 2 pounds.

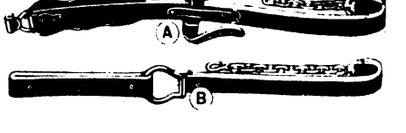
87 A 1678—4 Straps for.....**.69c**

Wards B Quality Straps—Cut from Economy Quality leather, 1 in. wide, 21 in. long. Riveted-in wire loops and roller buckle.

87 A 1671—Ship. wt. 14 oz. 4 straps for **49c**

(A) Metal Hame Fastener—Hook and lever chain style. Use instead of bottom hame strap. Cadmium plated. Ship. wt. each 12 oz.

87 A 8044—Each ....39c; Pair.....**.73c**



Wards Black 3-Ply Leather Team Traces

(A) With Metal Attachment for Bolt Hames—Wards **A** Quality Black leather. Black japanned hardware. Polished link heel chains, sewed in. 6 ft. 3 in. long inc. attachment. Ship. wt. set 2, 12 lbs. *Mailable.*

587 A 5485—1½ in. wide. Set 2....**$7.95**; Set 4.....**$15.50**

587 A 5486—1¾ in. wide. Set 2....**$8.75**; Set 4.....**$16.95**

For Clip Style Hames—same as above but with plain ends for clip hames. 6 ft. long. *Mailable.*

587 A 5493—1½ in. wide. Wt. 11 lbs. Set 2....**$7.75**; Set 4.....**$15.00**

587 A 5494—1¾ in. wide. Wt. 12 lbs. Set 2....**$8.50**; Set 4.....**$16.50**

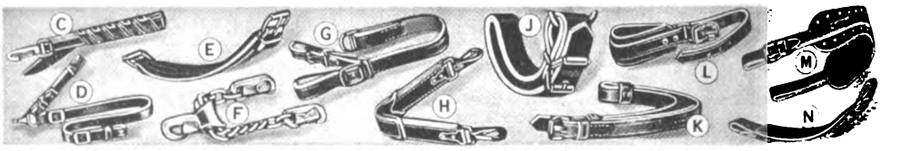
(B) Boston Truck Style Traces—Black malleable trace loop in center, 3-row stitched. Swivel heel chains with hook. 6 ft. long. Wards **A** Quality leather. Ship. wts. set of 2, 13 and 17 lbs.

587 A 1393—2-in. front, 1¾-in. back. Set of 2.....**$9.95**
Set of 4.....**19.50**

587 A 1394—2¼-in. front, 2-in. back. Set of 2.....**$11.50**
Set of 4.....**22.50**

Use Your Credit—See Inside Back Cover





Wards AAA Master Quality Team Lines

- **Rust-resisting Cadmium pltd. Hdwe.**

Snap style—single ply center at cross checks. 1⅛ in wide Metal-to-metal buckles reduce strap wear. Black or Russet leather. STATE COLOR. Wts. pair, 6 lbs. 8 oz; 7 lbs. 4 oz.

87 A 5514—18 ft. Pair.....**$5.95**

87 A 5515—20 ft. Pair.....**6.45**

Wards AA Superior Quality Team Lines

- **Heavy Duty Black Japanned Hdwe.**

Same quality Lines as used in Wards Superior Quality Harness sets. Black steerhide leather. Flat spring snap style. Metal to-metal buckles reduces strap wear. Shipping weights pr., 6, 6 and 7 lbs.

87 A 1318—1 in. by 18 ft. Pair.....**$4.89**

87 A 1320—1½ inch by 18 ft. Pair.....**$5.49**

87 A 1321—1½ inch by 20 ft. Pair....**$5.95**

Wards A Standard Quality Team Lines

- **Black Leather and Japanned Hardware.**

Flat spring snap style with 6-foot (regular) inside checks.

87 A 5516—1 inch wide by 15 ft. long. Ship. wt. 5 lbs. Pair.....**$3.69**

87 A 5517—1 inch by 18ft Ship. wt. 5 lbs. 4 oz. Pair.....**$4.35**

87 A 5519—1½ inch by 18 ft. Ship. wt. 6 lbs. 8 oz. Pair.....**$4.95**

87 A 5520—1½ inch by 20ft. Ship. wt. 6 lbs. 10 oz. Pair.....

(C) Hitch Reins—snap style. Cut from Wards Black steerhide harness leather. Full 7 ft. long, 1 in. wide. Black Japanned spring snap at end.

87 A 1628—Ship. wt. 1 lb. Each.....**55c**

(D) Sidebackers—Black leather. 1⅛ in. carrying strap. Black japanned ring snap and Conway buckles. Full 1½-in. wide. Ship. wt. 6 lbs.

87 A 5564—Set of 4.....**$6.35**

(E) Loather Filled Bellyband—2-inch folded with 1¼-in. layer. Leather loops. Roller buckles. Black leather and hdw. 22 in. long. Wt. 1 lb. 4 oz

87 A 1545—1¼-in layer. Each.....**95c**

(F) Breast Chains, Snaps—⅝ in. polished steel. Malleab snaps. Measurements incld. end and center snaps.

87 A 8162—28 in. Wt. 2 lbs. 8 oz. Ea. **59c**
87 A 8163—32 in. long. Wt. 3 lbs. Ea. **69c**

(G) Pole Strap—Black harness leather. Japanned hardware. Ring in the back, buckle at the front. Full 1½ inches wide. Ship. wt. 1 lb. 8 oz.

87 A 1521—Each.....**$1.15**

(H) Breast Strap—Cut from black steerhide leather. Strong flat spring snaps on ends. 3-ply. 1½ in. wide, 2 ft. long. Metal to metal slide in center.

87 A 1511—Wt. 1 lb. 12 oz. Each.....**98c**

(J) Breast Strap—Black japanned metal loop style. Black steerhide leather. Reinforced at ring. 4 ft. 6 in. long. 1½ in. wide. Securely riveted.

87 A 5548—Wt. 1 lb. 4 oz. Each.....**89c**

(K) Double Side Straps—Cut from Wards Black Steerhide leather. Japanned roller buckle. 1 in. wide, 6 ft. long.

87 A 1599—Ship. wt. pair, 2 lbs. Each.....**75c**; Pair.....**$1.45**

(L) Lazy Strap—Billet style. Cut from Black steerhide harness leather. 13 in. long. 1¾-inch liners.

87 A 1614—Ship. wt. 1 lb. Pair.....**85c**

(M) Team Harness Pads—Boston truck style. Cut from Black steerhide harness leather. Double and strongly stitched 1¼-in. layer and billets. Rust-resisting Black japanned hardware. Brass spotted. 4½-in. wide, 20 in. long.

87 A 1656—Wt. pr., 5 lbs. Pair.....**$5.50**

(N) Folded Bellyband—Boston truck style. 2¼ in. wide. Leather filled. Roller buckles. Leather loops to buckle into trace. Black leather.

87 A 5636—Wt. 1 lb. 12 oz. Each.....**$1.69**

You are protected on every purchase by Wards Guarantee "Satisfaction or Your Money Back." Read it in back of Catalog.

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Wards Guarantee Weight of Each Side

You always get fresh, pliable leather when you buy from Wards. We ship promptly from the finest newly tanned and filled stock—this means greater pliability, longer life. **Only Corn Fed Packer Steerhides Used**—free from cuts, blemishes, brands, etc. Sold only in Full Sides, Backs and Bellies with a guaranteed minimum weight for each piece.

Wards AAA Master Quality—Gauges 12 oz. per sq. ft. Russet or Black. State choice. Ship. wt. 26 lbs.
87 A 8775—Full Sides Only. Actual wt. 23 lbs. . . . $16.95

Wards AA Superior Quality—Gauges 11 oz. per sq. ft. Russet or Black. State choice. Ship. wt. 24 lbs.
87 A 8779—Full Sides Only. Actual wt. 21 lbs. $13.65

Wards A Standard Quality—Gauges to 10 oz. per sq. ft. Black only. Shipping weights 22 lbs. and 7 lbs.
87 A 8783—Full Sides Only. Actual wt. 19 lbs. $10.45
87 A 8786—Bellies Only. Actual wt. 4 lbs. 8 oz. 1.59

Wards B Economy Quality—Gauges to 9 oz. per sq. ft. Black only. Shipping weights 20 lbs. and 6 lbs.
87 A 8787—Full Sides Only. Actual wt. 17 lbs. $8.25
87 A 8790—Bellies Only. Actual wt. 4 lbs. 1.29

Leather Prices Subject to change. If necessary to raise prices, we will notify you before shipment

AIR CUSHION BOYT COLLAR



Sponge rubber and Kapok in face mould to horse's shoulder.

- **20-oz. Tire Fabric Face.**
- **Black Split Leather Back.**

$5.98 Ea.

The Collar that breathes with every step of the horse! Soft chopped sponge rubber and Kapok pad in face, backed by resilient rice hulls, shapes to horse's muscles—circulates air over shoulder. Large 18-in. draft. Can be changed from one horse to another.

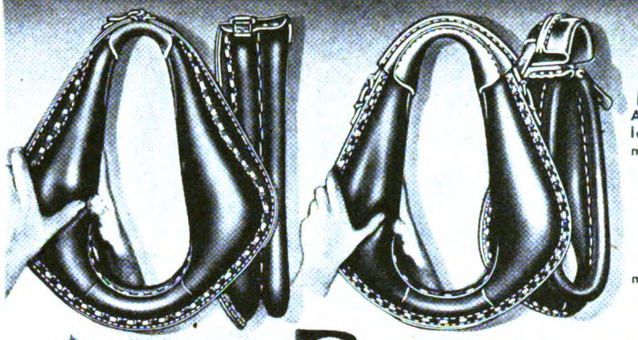
Blue checked face. Built by Boyt—famous collar maker. Deep hame bed. Long rye straw stuffed. Grain leather chafes.

Combination Shape—for horses needing half sweeney or full face. See Measuring Instructions below. **Mailed from** near Des Moines, Ia. in abt. 5 addt. days. Wts. 9 to 10 lbs.

M287 A 697—Sizes: 19, 20, 21, 22, 23, 24 in. **State size.** Each $5.98

M287 A 698—**Adjustable Air Cushion** With adj. top same as Wards Adj. collar at right. Adjusts to 3 sizes. MIDDLE SIZES: 20, 21, 22, 23, 24 in. (Each adjusts to one larger, one smaller size). **State size.** Wts. 9 to 10 lbs. Each $7.50

Wards FLEXO-FACE Collars





Adjusts 1" in. larger than middle size.



You order middle size.



Adjusts 1 in. smaller than middle size.



Throat, back, rim are rigid; being stuffed with long rye straw.



Soft curled hair pad under face backed with tangled straw.

$6.25 Ea. 17" Draft **Famous Flexo-Face** **$7.50 Ea.** 18" Draft

- **Made of Finest Oiled and Greased Flexible Leather.**

You'll be able to get more work from your horse or mule when you use a Ward *Flexo-Face* Collar because the pliable leather face and soft hair pad mould to the shoulder, giving a better fit and making it more comfortable. Treated with penetrating wool fat for longer life. Rim and back are rigid because they're tightly stuffed with long rye straw—hames stay on much better. Strong reinforced throat. Moulded sole leather top pad. Thong laced inner and outer seams. Metal top fastener—the kind that will last the life of the collar. **Mule-shape collar Mailed from Factory** in Northern, Ill. in abt. 5 addt. days; **others from stock.** See "It's Easy to Measure" below.

Black, All Grain Leather—Draft about 17 inches.
587 A 647—Half Sweeney; 587 A 646—Full Face
M287 A 652—Mule Collar (With proper inswell)
SIZES: 18 to 25 inches. **Be sure to State Article Number and Size.** Ship. wts. 8 to 12 lbs. Each $6.25

Brown, All Grain Leather—Draft about 18 inches, Built larger and heavier throughout, For big teams.
587 A 665—Half Sweeney; 587 A 664—Full Face
SIZES: 18 to 26 inches. **State Article Number and size.** Shipping wts. 9 to 11 lbs. Each $7.50

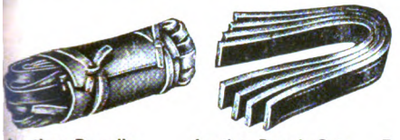
Adjust. Flexo-Face **$7.75 Ea.**

- **Top Cap Adjusts Evenly—Does Not Change Shape.**

One Collar—3 Sizes—one price! Fits perfectly at all three sizes because the improved cap has *two* buckle and billet fasteners—permits even adjustment on *both* sides—collar hangs straight from center of neck. No way to hurt or pinch.

Fits perfectly the year-around—in the early spring after the winter lay-off . . . in the late fall after summer threshing is finished. Can be safely changed from one horse to another.

Same Flexo-Face construction as collar at left. Finest top grain, oil tanned Brown Flexible leather. 17-inch Draft. **Shipped from Stock.** *Mailable.* **State Article Number and size.** To get the correct size for your horse see measuring instructions below.
587 A 654—Full Face Shape Collar
587 A 655—Half Sweeney Shape
SIZES: 20, 21, 22, 23, 24 in. (Size ordered adjusts to one larger, one smaller size.) Ship. wts. 9 to 10 lbs. Each $7.75



Leather Bundle

1-pound assortment of Rawhide, Chrome and Indian tan. Not to be compared with ordinary leather bundles. Contains no scraps or thin, weak, strings. Saves you time on emergency repairs. Ship. wt. 1 lb. 4 oz.

87 A 8183—Each 45c

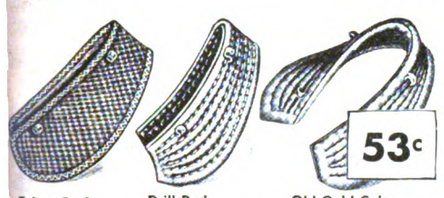
Leather Repair Cuts **14c**

- **Smoothedges—Carefully Creased and Blackened.** 2-ft 7/8 in.

A strap for every use! See sizes below. Wts. 3 oz. to 1 lb. 2 oz.

87A8772—**State length and width.**

Lgth. Ft.	7/8-in.	1-in.	1 1/8-in.	1 1/4-in.	1 1/2-in.	1 3/4-in.
2	14c	16c	18c	22c	26c	30c
3	21c	24c	27c	33c	39c	45c
4	28c	32c	36c	44c	52c	60c
5	35c	40c	45c	55c	65c	75c
6	42c	48c	54c	66c	78c	90c
7	49c	56c	63c	77c	91c	$1.05



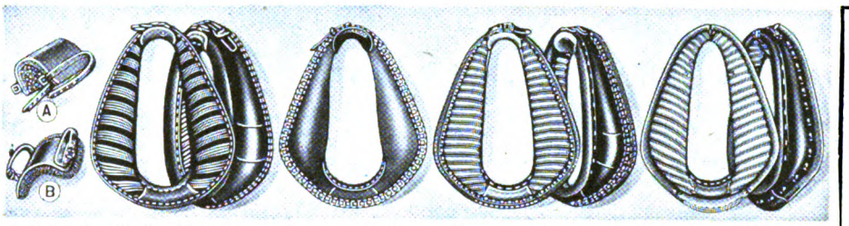
53c

Feltex Pad
Well made of 5-ply fabric. Soft, pliable face. 10-in. draft. Heavy stitched edges. **State Size.** Wt. 2 lbs. 6 oz.
87 A 905—Each . . . 47c

Drill Pad
Brown drill back. Black oilcloth face. Composite stuffed. 18 to 25-in. size. **State size.** Shipping wt. 2 lbs. each.
87 A 906 Each 77c

Old Gold Color
Cotton drill covered. Jute composition stuffed. 5-row quilting. Colored edge. 18 to 25 inch size. **State size.** Ship. wts. 2 lbs. to 2 lbs. 12 oz.
87 A 901—Each 53c
87 A 912—100% **Deer Hair Stuffed.** Striped covering. 19 to 25 in. Wt. 2 lbs. Each . . . $1.15

Order Pads 1 inch larger than actual collar size



Split Leather Back, Rim Heavy Tick Face **$2.25**

Rye straw stuffed. Strong wear leathers at draft. Metal top fastener. Draft 17 in. *Full Face style.*
487 A 622—Sizes: 17 to 24 in. **State size.** Wts. 8 to 11 lbs. Each $2.25

(A) **Sponge Rubber Pad**—Keeps neck cool. Washable. Straps. 6½ by 10 in.
87 A 2411—Wt. 12 oz. Ea. . 79c

(B) **Deer Skin Top Pad**—Deer skin back with hair turned out. Buckle strap. 6 by 10 in.
87 A 908—Wt. 1 lb. Each . . 79c

All Leather **$3.35 Ea.**

Retanned chrome smooth split-leather face. Black leather back and rim. 17-in. draft. Shipping wts. 8 to 10 lbs.
487 A 692—**Full Face Shape Collar**
487 A 693—**Half Sweeney Shape**
SIZES: 17 to 23 in. **Be sure to state Article Number and Size Wanted.**
Each $3.35

Tick Face Farm Collar **$3.89 Ea.**

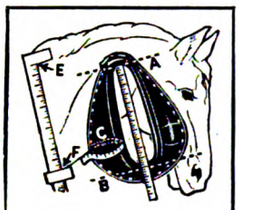
Irish style with curled hair pad. Split leather rim, back. Draft 18 in. Ship. wts. 7 to 10 lbs.
487 A 683—18 to 24 in. **State size.** Each . . $3.89

Irish Farm Style
Black grain leather back, rim. Curled hair face. Shipping weights 9 to 10 pounds.
487 A 691—18 to 24 in. **State size.**
Each $4.95

Heavy-Type Irish Collar **$9.89 Fa.**

Black, full-grain leather back and rim. 12-oz. inner duck face. Curled hair cushion, Irish head, hand tufted top. Draft 19 in. Wts. 13 to 16 lbs.
487 A 690—18 to 24 in. **State size.** Each $9.89

Farm—Irish Collar. Canvas lining between hair cushion and ticking outer face. Wts. 10 to 14 lbs.
487 A 699—SIZES: 18 to 24 in. **State size** $7.95



It's Easy to Measure

If you have an old collar, measure inside at rim (back) from top to bottom buckled up. Distance from A to B in inches (see picture) is correct size to order.

If you don't have an old collar, take a stick and measure neck. Order same size collar as distance from E to F.

Important: Order collar 1 in. larger if sweat pad is used. Draft of collar is circumference at thickest point. (C above)

HARNESS SNAPS

2 for 8c



(A) **Flat Spring Snaps**—Malleable. **State finish,** or we select. Ship. wt. pair 3 to 10 oz.

Article Number	Size In.	Black 2 for	Black 12 for	Cadmium 2 for	Cadmium 12 for
87A8491	5/8	8c	45c	8c	45c
87A8492	3/4	9c	50c	9c	50c
87A8293	7/8	10c	54c	10c	54c
87A8294	1	10c	54c	10c	54c
87A8295	1 1/8	11c	60c	11c	60c
87A8296	1 1/4	15c	82c	15c	82c
87A8297	1 1/2	17c	96c	17c	96c
87A8298	1 3/4	20c	$1.12	20c	$1.12
87A8299	2	23c	1.29	23c	1.29

(B) **Eye Bolt Snaps.** Malleable iron. Heavily black japanned.

Article No.	Size	Wt 2	2 for	12 for
87A8283	1 in	6 oz	14c	78c
87A8284	1 1/4 in	7 oz	19c	$1.05

(C) **Round Eye Bolt Snap**—Cadmium pltd. Wt. two, 5 oz.
87 A 8287—3/4-in. eye. 2 for . 19c

(D) **Swivel Bolt Snap**—Cadm. pltd. 3 1/2 inches long. Shipping weight, two, 7 ounces.
87 A 8317—3/4-in. eye. 2 for **29c**

(E) **Rope or Chain Snap**—Galv. steel. 4 in. long. Wt. 2, 8 oz.
87 A 8455—3/4-in. eye. 2 for . 15c

(F) **Round Eye Kling Snap**—Cadmium pltd. Wt. two, 5 oz.
87 A 8292—3/4-in. eye. 2 for . . 7c

(G) **Open Eye Snap.** Black.
87 A 8288—**State length.**

Eye	Length	Wts	Each	Six
3/8 in	3 1/4 in	5 oz	10c	54c
1/2 in	4 5/16 in	9 oz	22c	$1.22

(H) **Breast Strap Roller Snap.**
87 A 8301—**State finish.**

Size In.	Ship. Wt. for 2	Black 2 for	Cadmium pltd. 2 for
1 1/2	1 lb. 8 oz	65c	65c
1 3/4	1 lb. 10 oz	72c	72c
2	1 lb. 12 oz	79c	79c

(J) **Black Bit Snap.** 2 1/4-in. Weight 2 oz. each.
87 A 8280—4 for **19c**

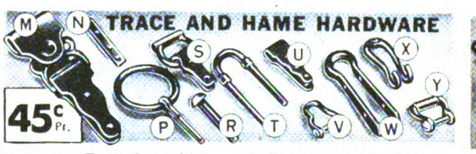
(K) **Sliding Center Snap.** Polished malleable. Wt. 2: 2 lbs.
87 A 8300—2 for **65c**

(L) **Double End Snap.** Malleable. For breast chains.
87 A 8323—Wt. ea. 9 oz. 2 for **35c**

Include Any of Wards Harness Hardware Parts in Your Time Payment Order —See Inside Back Cover

TRACE AND HAME HARDWARE

45c Pr.



(M) **Jointed Trace Clips.** 2 in. wide at hame.
87 A 8393—Wt. 2 lbs. Pr. **45c**

(N) **Trace Splicer.** 3/4 inch wide by 4 inches long. Ship. weight two, 5 oz.
87 A 8338—2 for **10c**

(P) **Hame Line Rings.** 2-in. polished steel ring. Ship. weight two, 8 oz.
87 A 8037—2 for **12c**

(R) **Soft Iron Hame Rivets.** 1-in. Wt. 1 lb. 4 oz.
87 A 8042—1 lb. pkg **22c**

(S) **Hame Attachment.** 2 1/4 in. wide. Malleable. Black.
87 A 8051—Wt. 12 oz.
Each . . . 22c; 4 for **82c**

(T) **Hame Staples.** Ship. wt. two, 8 oz.
87 A 8036—2 for **10c**

(U) **Trace Repair Clips.** Black. Ship. wt. 2: 1 lb.
87 A 8388—1 1/2-in. Pr. . . 16c
1 3/4-in. Pair 18c
2-in. Pr. 20c; 2 1/4-in. Pr. . 22c

(V) **Chain Clevis.**

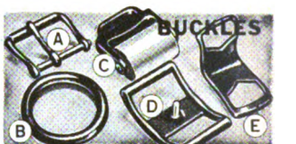
Art. No.	In.	Wt.	Two
87 A 8334	1 1/2	12 oz.	28c
87 A 8335	1 3/4	1 lb.	33c
87 A 8336	2	1 lb.	38c

(W) **Polished Hame Clips.** 2-hole. Wt. four, 1 lb.
87 A 8035—4 for **26c**

(X) **"Lone Star" Hooks.** For adjustable hames. Forged steel. Wt. two, 6 oz.
87 A 8045—2 for **12c**

(Y) **Polished Hame Loops.** Screw bottom. 1-in. malleable iron. Wt. four, 8 oz.
87 A 8041—4 for **29c**

BUCKLES



(A) **Screw Repair Buckles**
Black. **State size.**
87 A 8362—

Size	Wts. 2	2 for
1 in.	4 oz.	16c
1 1/8 in.	4 oz.	18c
1 1/4 in.	5 oz.	21c
1 1/2 in.	6 oz.	26c
1 3/4 in.	7 oz.	29c

(D) **Conway Buckles**
Black. **State size.**
87 A 8379—

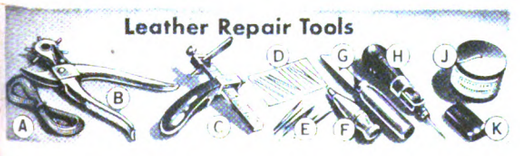
Size	Wts. 6	6 for
7/8 in.	6 oz.	18c
1 in.	8 oz.	22c
1 1/8 in.	9 oz.	28c
1 1/4 in.	13 oz.	35c
1 1/2 in.	13 oz.	45c

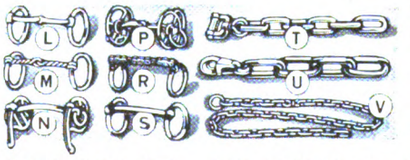
(B) **Steel Harness Rings**—Black. Wts. 6 ounces to 1 lb. **State size.**
87 A 8377—3/4-in. 6 for 9c
7/8-in. 6 for . . 10c | 1-in. 6 for . . 12c
1 1/4-in. 6 for . . 14c | 1 1/2-in. 6 for . . 16c
1 3/4-in. 6 for . . 18c | 2-in. 6 for . . 23c

(C) **Spread Roller**—For lines to 1 1/4 in.
87 A 8326—Pair. Wt. pr, 6 oz. 29c

(E) **Breast Slides**—Black. Wt. 1 lb.
87 A 8331—1 1/2-in. 2 for 19c
1 3/4-in. size. 2 for 20c

Leather Repair Tools





(A) **Harness Thread**—Black, waxed. 25-yard skein. Shipping wt. 2 oz.
87 A 8174—Skein **11c**

(B) **Harness Punch**—removable Punch tubes—assorted sizes. Ship. wt. 1 lb.
87 A 8184—Each $1.10

(C) **Gauge Knife**—Cuts straps up to 4 in. wide. Shipping weight 1 lb. 4 oz.
87 A 8191—Each $2.19

(D) **Harness Needles**—tempered steel. Assorted sizes. Shipping weight 2 oz.
87 A 8185—Pkg. 25 . . . . . **15c**

(E) **Awl Blades**—assorted sizes. Shipping weight 2 oz.
87 A 8186—12 for **42c**

(F) **Awl Handles**—with ferrule top. Ship. wt. 5 oz.
87 A 8188—3 for **17c**

(G) **Trimming Knife**—wood handle, 3 in. steel blade.
87 A 8189—Wt. 5 oz. Each **25c**

(H) **Myer's Sewing Awl.** Straight and curved needle. Reel of thread included.
87 A 8176—Wt. 8 oz. Each **48c**

(J) **Harness or Shoe Thread**—No. 10 pure linen Thread. 1 oz. measures 150 yds. Ship wts. 4 and 2 ounces.
87 A 8194—2-ounce ball . . . **40c**
87 A 8197—1-ounce ball . . . **22c**

(K) **Black Wax**—Shipping weight 4 balls, 6 oz.
87 A 8192—4 balls **12c**

(L) **Standard Bits**—Cadmium pltd. 6-in. mouth. Shipping weight 12 oz.
87 A 8400—Jointed Mouth
87 A 8401—Stiff Mouth
2 for . . . 29c; Each **15c**

(M) **Wire Bit**—Jointed. 5 1/2-in. mouth. Wts. 9, 10 oz.
87 A 8403—Single bar . . 19c
87 A 8404—Double bar . 35c

(N) **J.I.C. Controlling Bit**—double bar.
87 A 8406—Wt. 1 lb. Ea. **55c**

(P) **Beery Bit**—5 1/2-in. mouth. 4 adjustments.
87 A 8474—Wt. 12 oz. **98c**

(R) **Hard Mouth**—6 1/2-in. chainlink Mouth. Wt. 1 lb.
87 A 8228—Each 55c

(S) **5-in. Rubber Mouth**—
87 A 8473—Wt. 9 oz. **85c**

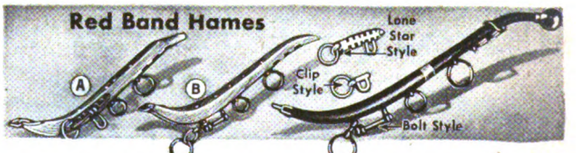
(T) **Swivel Heel Chains.** Six, 3/16 in. links. Screw dee. Ship. wt. 1 lb. 12 oz.

Article No.	Dee	Each	4 for
87 A 8145	1 1/2 in	30c	$1.16
87 A 8146	1 3/4 in	32c	1.24
87 A 8147	2 in	34c	1.32

(U) **Snap Heel Chains.**
87 A 8148—15-in. 4 links. Wt. 1 lb. 6 oz. Ea . . . **30c**
87 A 8149—21-in. 6 links. Ship. wt. 1 lb. 8 oz. Each **36c**

(V) **7-ft. Trace Chain**—8 links to ft. No. 2 1/4-in. steel link. Ship. wt. 4 lbs. 8 oz.
87 A 8152—Ea . 35c; Pr. **65c**
87 A 8153—**Heavy, No. 1** 2 1/2-in. link. Wt. 5 lbs. 8 oz. Each . . . 44c; Pair **83c**

Red Band Hames



(A) **"Lone Star" Wood.** Wts. 6; 7 lbs. 4 oz.; 4 lbs. 4 oz.
587 A 8018—For collars 17 to 20 in. Pair **$1.45**
587 A 8017—19 to 22 in. 1.75
587 A 8008—Light wt.—no back strap ring. 17 to 20 in. **98c**

(B) **Concord Wood Hames.** Varnished wood. Bolt style. Wts. 6, 7 and 10 lbs.
587A8014—17 to 20 in. . **$2.49**
587A8015—18 to 22 in. 2.75
587A8050—21 to 24 in. 3.25

Red Boston Truck Style—wood, brass ball. For collars 18 to 22 in. Wt. pr. 6 lbs. 12 oz.
587A8052—Bolt style. **$4.75**
587A8053—Clip style. . 4.75
587A8054—Bolt style. Nickeled ball top. Pair . . . **$4.75**

Tubular Steel—Hardwood Filled

Bolt Style—see above. 2 in. top.
Reg. Length—19 to 22 in. Wt. 7 lbs.
587 A 8064—Red plastic ball. Pr. **$2.49**
587 A 8013—Brass Ball. Pair . . 2.75
587 A 8055—Nickeled Ball. Pair. 2.75
Long—23 to 24 in. Wt. 8 lbs. 8 oz.
587 A 8060—Brass Ball. Pair . . . **$3.25**

Clip Style—see above. 2 in. top.
Reg. Length—19 to 22 in. Wt. 7 lbs.
587 A 8012—Brass Ball. Pair . . . **$2.75**
587 A 8056—Nickeled Ball. Pair. 2.75
Long Hames—23 to 24 in. Wt. 8½ lbs.
587 A 8061—Brass Ball. Pair . . . **$3.25**
Lone Star Style—For collars 19 to 22 in. Wt. pair 7 lbs. 4 oz.
587 A 8068—Brass Ball. Pair . **$2.75**

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$2.39 72-in. Unlined

$2.49 50-in. Burlap

10-oz. Burlap Stable Blankets

- **Made of Heavy Woven Brown Check Burlap.**
- **Warmly Lined with Striped Kersey (Jute).**

Good looking enough for exhibition purposes and the striped Kersey lining adds lots of warmth for cold weather needs. Neck, bottom and back end are double stitched. Two adjustable Jute surcingles with strong metal fasteners. Hemmed neck and breast. Adjustable chain fastener at front—leather reinforced for extra strength. **Sizes quoted are lengths measured along bottom blanket. State Article Number and size.**

Article Number	Ship.wt.	72-in.	76-in.	80-in.
87A8694—Lined..	8 lbs.	$3.98	$4.20	$4.40
87A8693—Unlined	4 lbs.	2.39	2.59	2.79

As above but 7-oz. white duck with black check.

87A8696—Lined..	8 lbs.	$4.95	$5.20	$5.45
87A8695—Unlined	3 lbs.	3.19	3.45	3.70

Plain Burlap Stable Blankets—Same as above except without checker design.

Article Number	Ship.wt.	72-in.	76-in.	80-in.
87A8683—Lined..	7½ lbs.	$3.65	$3.85	$4.10
87A8720—Unlined	3 lbs.	2.25	2.45	2.65

7-oz. Brown Duck—jute lined. Plain—no design.

87A8686—Lined..	7 lbs.	$4.59	$4.80	$4.98

Duck or Burlap Cow Covers

- **Ideal for Protection as Well as Show.**
- **Girths Extra Strongly Stitched on.**

Sizes given are length measure from neck to tail along back. Adjustable fasteners at front. Hemmed neck and rear.

Closely Woven 10-oz. Burlap

87 A 8726—50-in. Ship. wt. 3 lbs.....$2.49
87 A 8727—56-in. Ship. wt. 3 lbs.....2.65
87 A 8728—60-in. Wt. 3 lbs. 4 oz.....2.80

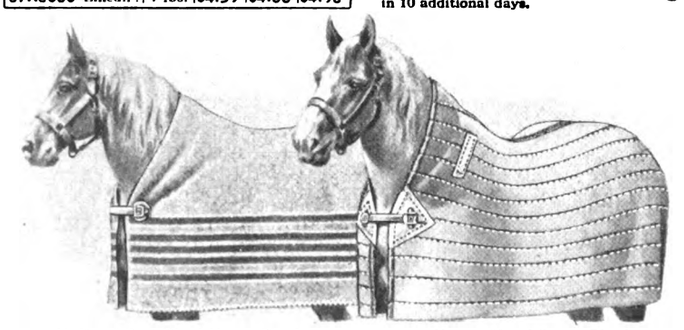
Khaki Color 7-oz. Duck

87 A 8731—32-in. Wt. 1 lb. 12 oz.....$2.49
87 A 8732—42-in. Wt. 1 lb. 14 oz.....2.65
87 A 8723—50-in. Wt. 3 lbs.....2.80
87 A 8724—56-in. Wt. 3 lbs. 4 oz.....2.95
87 A 8725—60-in. Wt. 3 lbs. 8 oz.....3.10

Name or Initials for Show Blankets

Green, Black or Red felt letters, 6 or less 85c. Each addt. letter 15c. *To order:* Add fig. "2" before Blanket Art. No. **State** color and position of lettering. **Shipped from** near Chicago usually in 10 additional days.

JMC



Unlined Part-Wool Horse Blankets

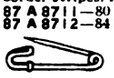
$2.79 72x72-in.

Closely woven and well stitched around edges. Reinforced strap and buckle. **50% Reprocessed Wool—Balance Cotton and Rayon for added strength.** Brownish Gray body, mixed Canary, Black and Red border stripes. Leather strap and buckle at front.

87 A 8707—72 by 72 in. Wt. 4 lbs. 8 oz. Ea....$2.79
87 A 8708—76 by 80 in. Wt. 4 lbs. 12 oz. Ea.... 3.40
87 A 8714—80 by 84 in. Wt. 5 lbs. 8 oz. Ea.... 3.90
87 A 8715—84 by 90 in. Wt. 6 lbs. 4 oz. Ea.... 4.35

Heavier Weight 33⅓% Reprocessed Wool, 7% Reused Wool—Balance Cotton for strength. Dark Gray body, mixed Red, Orange, Blue and Maroon border stripes. Hand whipped edges.

87 A 8711—80 by 84-in. Ship. wt. 6 lbs. Ea....$4.45
87 A 8712—84 by 90-in. Ship. wt. 8 lbs. Ea.... 5.75



Blanket Pin—Nickel pltd. finish. 3⅜-inch size. Wt. ea. 1 oz.
87 A 8490—Ea. 3c; Dozen...33c

Heavy Lined Storm Blankets

$5.45 80x84-in.

Real cold-weather protection for your horses. Deep-quilted body, kersey jute lined for extra warmth. Adjustable front fasteners, strongly reinforced. Edges folded and hemmed. Sewed trace carriers and hame leathers. Durably made throughout.

8-oz. Brown Duck (Not waterproofed). Ship. wts. 9 lbs.; 10 lbs.

87 A 8689—80-in. by 84 in.....$5.45
87 A 8690—84 in. by 90 in..... 5.95

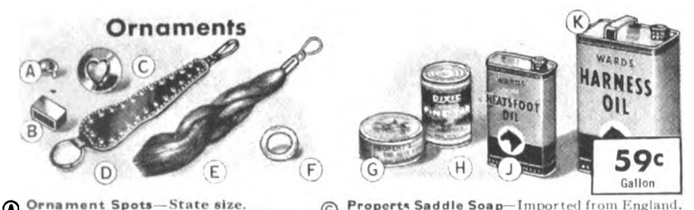
10-oz. Tan Duck (Waterproofed). Shipping weights 14 lbs.; 15 lbs.

87 A 8681—80-in. by 84 in.....$6.45
87 A 8682—84 in. by 90 in..... 6.95



Surcingle—Jute. 2¾ by 90 in. Wt. 10 oz.
87 A 8679—Ea. 39c; Pr. 69c

Ornaments



Ⓐ **Ornament Spots**—State size.
87 A 8242—Nickeled, 87 A 8243—Brass ¼ or ⅜-in. Wt. 3 oz. 25 for.. 11c
½ or ⅝-in. Wt. 4 oz. 25 for..... 17c
¾-inch..... Wt. 5 oz. 25 for.....26c

Ⓑ **Celluloid Loops**—Red, White or Blue. Sizes: ⅝, ¾, 1⅛-in. Wt. 3 oz.
87 A 8264—State size, color. 6 for.17c

Ⓒ **Nickeled or Brass Heart Rosettes**—Ship. wt. Pr. 6 oz. State choice. ..
87 A 8244—Pair..... 17c

Ⓓ **Black Hip Drop**—Brass spots.
87 A 8252—Ship. wt. 9 oz. Ea....67c

Ⓔ **Red Hair Tassel**—12-in. long.
87 A 8255—Ship. wt. 6 oz. Pr....59c

Ⓕ **Celluloid Rings**—Red, White, or Blue. Ship. wt. six, 4 oz.
87 A 8257—State size and color.
⅞, 1, 1⅛, 1¼-in. Each..... 10c
1⅜, 1½, 1⅝-in. Each..... 16c
1¾, 1⅞-in. 22c; 2⅛, 2½-in.....26c

Ⓖ **Properts Saddle Soap**—Imported from England.
87 A 8173—5-oz. can. Ship. wt. 12 oz. Ea....25c

Fiebing's Saddle Soap—Fine domestic soap.
87 A 8135—8-oz. can. Ship. wt. 12 oz. Each....25c

Ⓗ **Dixie Pine Tar**—For hoofs, tree surgery, etc.
87 A 2464—1-pint can. Ship. wt. 1 lb. 8 oz. 22c

Ⓙ **Prime Neatsfoot Oil**—100% pure—contains no other compounds. Saves, preserves leathers. Ship. wts. 1 lb. 4 oz.; 1 lb. 8 oz.; 3 lbs.; 9 lbs.
87 A 7521—½-pint. 25c; 87 A 7520—1-pint.47c
587 A 7519—1-qt. 80c; 487 A 7518—1-gal.$2.75

Neatsfoot Compound—Neatsfoot with other oils
587 A 8127—1-quart can. Ship. wt. 3 lbs.....39c

Ⓚ **Best Grade Penetrating Black Mineral Harness Oil**—Made from selected full bodied mineral oils—not diluted with kerosene.
487 A 8131—1 gallon. Ship. wt. 9 lbs.....59c
487 A 8132—2 gallons. Ship. wt. 17 lbs.....$1.10
487 A 8133—5 gallons. Ship. wt. 43 lbs..... 2.59

Russet Harness Oil—for Russet leather.
487 A 8130—1 gallon. Ship. wt. 9 lbs.....69c

Brushes—Combs



Ⓛ **Bass Fiber Push Broom**—Height 6½-in. including fiber. 14-in. wide. No handle.
587 A 8217—Ship. wt. 2 lbs. 8 oz. Ea....98c

Handle Only—4½-ft. wood handle for above.
587 A 8235—Ship. wt. 2 lbs. 6 oz. Ea....10c

Ⓜ **Stiff Fiber Brush**—Wood back 7⅛ by 4 in. Leather handle.
87 A 8205—Ship. wt. 1 lb. Each.....25c

Ⓝ **Fiber Stock Brush**—Stiff fibers in wood back. 8½ by 2½-in. size
87 A 8209—Ship. wt. 1 lb. Each.....37c

Ⓟ **Wards Finest Brush**—Black leather back. Black Fiber tufts. 8¾ by 4⅛-in.
87 A 8211—Wt. 1 lb. Each..$1.39

Ⓡ **Steel Curry Comb**—Solid 4 by 4⅝-in. back. 8 bars. With mane comb.
87 A 8215—Shipping wt. 1 lb. Each....29c

Ⓢ **Reversible Curry Comb**—Made of steel.
87 A 8213—Shipping wt. 1 lb. Ea.....23c

Ⓣ **Mane Comb**—Aluminum. 20 teeth. 4⅝-in.
87 A 8497—Shipping wt. 4 oz. Each...59c

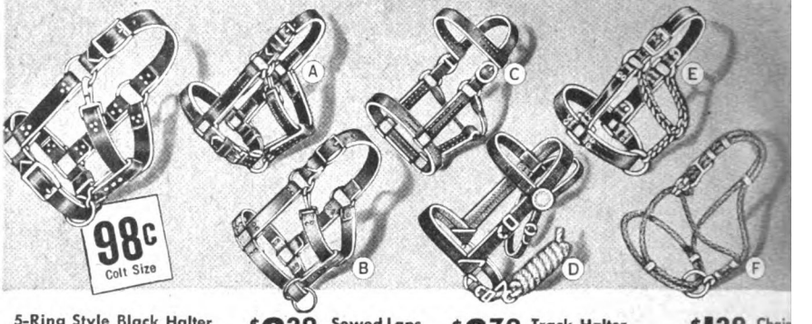
Ⓤ **Scotch Curling Comb**—Imported. 6-in. steel head. Wood handle.
87 A 8496—Shipping wt. 1 lb. Each..$1.25

Ⓥ **Lining or Marking Comb**—Steel. 4½ by 3½ inch size. Wood handle.
87 A 8498—Shipping wt. 8 oz. Each....27c

Ⓦ **Curry Cards**—Wood back. Steel teeth.
87 A 8495—3½ by 5½... 5 oz. Ea..25c

FOR STABLE AND SHOW

4-H CLUBS · EXHIBITORS · FARMERS



5-Ring Style Black Halter

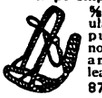
Steerhide harness leather. Snap on throat strap. Ship. wts. ea. 2 lbs. to 2 lbs. 8 oz.

87 A 1258—**Medium Size.** 1-in. straps (2-rivet laps)..$1.29
87 A 1259—**Regular size.** 1¼-inch straps.....$1.49
87 A 1260—**Large Size.** 1¼ inch straps.....$1.75

Colt or Pony Halters

1-in. straps. Wt. 1 lb. 12 oz.
87 A 1265—Med. size....98c
87 A 1272—Larger size.$1.19

Rope Shipping Halter



⅝-in. red rope. Popular for shipping purposes. ⅛-in. nose brace, throat and front. 5-ft. lead. Wt. 2 lbs. 8 oz.
87 A 1247....29c

$2.29 Sewed Laps

Ⓐ Black steerhide leather. Adjustable crown and chin. Ship. wts. 2 lbs. 8 oz. to 3 lbs. 4 oz.
87 A 1261—**Reg. Size** 1¼-in. straps. Ea..$2.29
87 A 1262—**Large Size.** 1½-in. straps. Ea.$2.69
87A1263—**Extra Large.** 1½-in. straps. Ea.$2.89

Chrome Leather

Ⓑ Made of tough chrome tanned, long wearing leather. Strong 1¼-inch straps. 6 ring style. Securely riveted laps.
Shipping weight 2 lbs. 4 oz.
87 A 1277.....$1.15

$3.79 Track Halter

Ⓒ Pliable russet saddle leather. Strongly stitched 1-in. straps. Solid brass trimmed. Round throat.
87 A 1242—**Horse Size.** Wt. 2 lbs. 2 oz. Ea...$3.79
87A1240—**Colt Size.** Adjustable chin. No brow-band. Ship. wt. 1 lb. 8 oz. Each.....$3.45

Cotton Webbing Halter

Ⓓ Heavy cotton webbing. Adj. cheeks, chin and throat straps. Tie rope. Ship. wts. 1 lb. 4 oz. and 1 lb.
87A1292—**Horse Size.** 1⅝-in. straps. Each...69c
87A1253—**Colt Size.** 1-in. straps. Each.....59c

$1.29 Chain Halter

Ⓔ Wards black harness leather 5-ring style. 1¼-in. straps. Heavy cadmium plated chain throat. Riveted laps. Adjust. buckle crown. Ship. wt. 3 lbs. 6 oz.
87A1271—Ea. $1.2

Braided Sash Cord

Ⓕ One piece ⅜-in. sash cord with both ends terminating through the buckle. Double crown, jaw and chin. Sturdy hdwe. Adj. crown.
87A1285—Wt. 1 lb. 8 oz. Each .79



Riveted Cow Halter 79c

Cut from Black steerhide leather, 1⅛-in. straps. Adjustable crown. Black japanned hardware.
87 A 1264—**Cow Size**—Ship. wt. 1 lb. 6 oz. Each.....79c
87 A 1273—**Calf Size**—1-in. straps. Shipping weight 1 lb. 4 oz. Each..57c

$1.85 Russet Leather

Dark brown steerhide leather. Double and strongly stitched. Adjustable crown. 1¼-in. straps. Shipping weight 2 pounds 8 ounces.
87 A 1246..$1.85

69c Web Cow Halter

1⅝-in. adjustable crown noseband. Rope tie with snap. 87A1266—Wt. 1 lb. 4 oz. Each.....69c
87 A 1267—**Calf Halter.** 1-in. webbing. Ship. wt. 10 oz. Each.....55c

$1.25 Calf Halter

Adjustable for up to yearling calves. Cut from Russet leather, 1-in. straps—double riveted laps. Black hardware. Shipping weight 1 lb. 8 oz.
87A1274—Ea.$1.25

98c Brown Cord

Mahogany colored cotton sash cord. Double, ⅜-in. rope adjustable. Lead rope about 5½ ft. long. Link chain under chin. Ship. wt. 1 lb. 14 oz.
87A1280—Ea.98



Lead Rope—½-inch sisal. With snap. Abt. 7 ft. Shipping weight, 12 oz.
87 A 1283—Each.....22c



4½-ft. Halter Chain—twisted wire. Steel loop and snap. Wt. 1 lb. 2 oz.
87 A 8234—Each... 21



$4.35 Beef Stock Show Halters

Soft, pliable, russet saddle leather. 1¼ in. straps. Cad. pltd. chain, snaps. Brass rings and buckles. Wt. 2¾ lbs.
87 A 1373—Bull Size.$5.35
87 A 1374—Cow Size. 5.10
87 A 1375—Calf Size. 4.35

With white leather layer on cheeks, crown, noseband. **Mailed from** near Chicago usually in 5 addt. days.
M287A1376—Bull Size.$5.85
M287A1377—Cow Size. 5.60
M287A1378—Calf Size. 4.85

Round-Style Show Halters

Russet saddle leather. Brass hardware. Cad. plated chain. Wt. ea., 1 lb.
Cow Size—1¼-inch crown. 1⅛-in. lead.
87A1251—Ea.$3.89
Bull Size—
87A1252—Ea.$4.10
Calf Size—1-in. lead crown. Brass pltd. chain, no swivel.
87A1250—Ea.$3.45

Bull Stall Halters

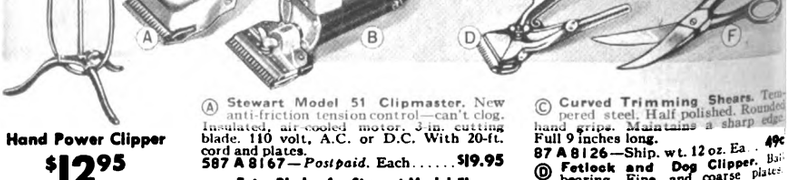
Made of extra strong Russet harness leather. Full 1½-in. crown. Cadmium plated chain with lead and tie ring. Cadmium plated double tongue buckle at crown. Riveted laps. Shipping weight 3 lbs. 2 oz.
87 A 1244—Each.....$1.98

Aluminum Bull Controller

Stops fence breakers and jumpers without force or pain. Heavy aluminum alloy slotted blinds fit over eyes and obscure eyesight when bull lowers his head to charge. Does not prevent normal feeding or walking. Heavy harness leather fittings and link chain adjust to fit any size bull. Will not chafe or gall. Strong leather ring at throat. **Mailed from Factory** in Wisconsin usually in 5 addt'l days. *Postpaid.*
M287 A 1294—Each.....$12.5

Open a Credit Account with any order of $10 or more.... pay as little as $2 a Month See Inside Back Cover.

For additional clippers, shears, grinders, blades, etc. other than below write for Wards Free Clipping and Shearing Book.



Hand Power Clipper $12.95

Ball bearing type. Web covered flexible shaft and chain. Wide spread tripod stand, upright tube. Enclosed, dustproof gear case. Wt. 33 lbs.
487A8081—Each$12.95

Extra Plates

Ship. wt. each 4 oz.
87A8088—**Top Plate.** Each.....$1.27
87A8089—**Bottom Plate.** Each.....$1.76

Ⓐ **Stewart Model 51 Clipmaster.** New anti-friction tension control—can't clog. Insulated, air cooled motor. 3-in. cutting blade. 110 volt, A.C. or D.C. With 20-ft. cord and plates.
587 A 8167—*Postpaid.* Each.....$19.95

Extra Blades for Stewart Model 51

87A8168—**Top Blade.** *Postpaid.* Ea.$1.35
87A8169—**Bottom Blade.** *Postpaid* 1.85
Blades for Model 21 (not illustrated).
87 A 8077—Top Blade. *Postpaid.* Ea.$1.35
87 A 8078—Bottom Blade. *Postpaid* 1.85

Ⓑ **Wards Lakeside Clipper.** Easy to handle. Ball bearing tension. 3-in. cutting blades. 20-ft. cord. For any 110–120 volt A.C. or D.C.
587 A 8094—Ship. wt. 6 lbs. Each..$17.95

Extra Plates for Above

87 A 8075—Top Plate. Wt. 5 oz. Ea.$1.27
87A8076—Bottom Plate Wt. 6oz. Ea. 1.76

Ⓒ **Curved Trimming Shears.** Tempered steel. Half polished. Rounded hand grips. Maintains a sharp edge. Full 9 inches long. 49c
87 A 8126—Ship. wt. 12 oz. Ea.

Ⓓ **Fetlock and Dog Clipper.** Ball bearing. Fine and coarse plates. Tension spring handle. $1.10
87 A 8100—Ship. wt. 12 oz. Ea.

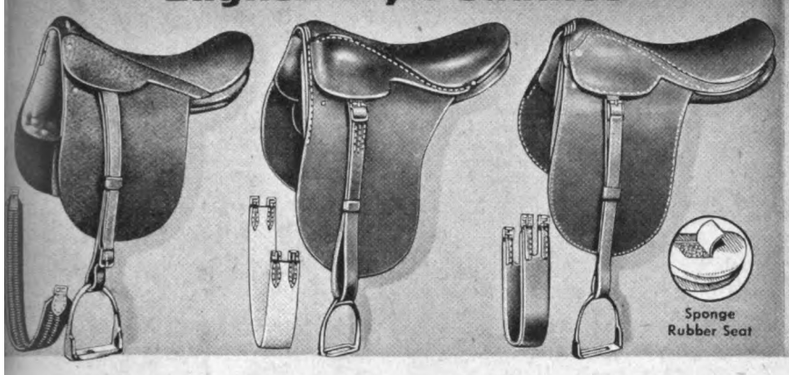
Ⓔ **Ball Bearing Clipper.** 11-in. size Black wood handles.
87 A 8101—Shipping weight 1 pound 8 oz. Each..... $1.59

Ⓕ **Roaching Shears.** Tempered steel. Curved blade. One edge corrugated. 8 inches long.
87 A 8104—Shipping weight 8 oz. Each..... $1.10

Write for Free Clipping and Shearing Book, Contains Complete Line

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English Style Saddles



Wards Dolly Queen

Pigskin Grained Russet Skirting Leather. Popular with Clubs, Stables, Riding Academies, where an inexpensive but comfortable Saddle is wanted. Tree—Full 16 by 12-in. size. Pad—Hair stuffed. Covered with quilted drill. Tacked in. Seat—Russet skirting leather, pigskin grained. Well padded. Skirts—Round cut. 15 by 10¼ in. Pigskin impression. Stirrup Straps—1 in. wide to buckle. XC plated stirrups. Girth—3½-in. webbing. 487 A 1062 — Shipping weight 14 lbs. Cash Price. $14.50

$14.50 Cash
$2.50 Down
$2.50 Month

The Newcastle Tree

- Pigskin Seat.
- Sponge Rubber Padding.

$34.50 Cash
$5 Mo. See Back Cover

Stronger—double iron plates riveted in gullet.
More comfortable to ride—thick layer of sponge rubber under seat eases jolts. Built on the popular Newcastle tree.
Pad—Russet leather, filled with felt and laced in. Won't lump or shift out of place.
Skirts—Pigskin grained.
Stirrup Straps—1½-in. wide to buckle. Safety hooks on tree. Nickel plated stirrups.
Girth—4-in. cotton webbing.
487 A 1059—Ship. wt. 14 lbs. Cash Price.....$34.50

The River Forest Saddle

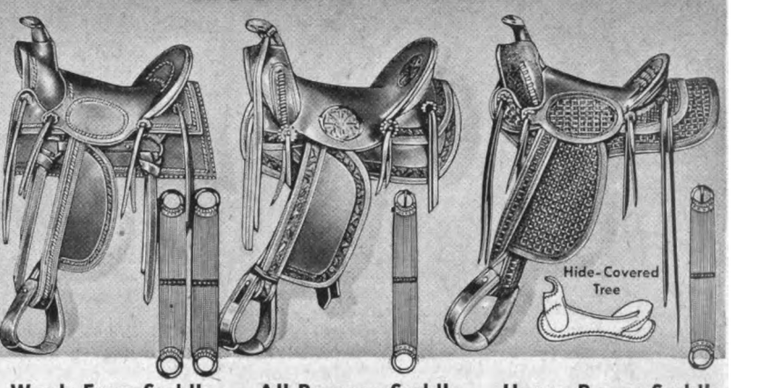
- Sponge Rubber Pad.
- Tree Reinforced with Double Iron Plates.

$44.95 Cash
$5 Mo. See Back Cover

Carefully patterned after a famous imported English Saddle—has all the quality features such as pigskin seat, felt filled and soft kip covered pad but Wards price is a full $10 less!
Tree—18-in. English style. Safety type, metal hook stirrup bars.
Seat—One piece of fine pigskin. Thick layer of sponge rubber underneath. Finest Russet leather (pigskin grained) skirts and jockey.
Pad—Felt filled—won't lump or shift. Kip covered. Hand-laced in.
Girth—3-fold leather. 1½-in. stirrup straps. Nickel plated stirrups.
487 A 1056—Ship. wt. 20 lbs... $44.95

Read Wards Famous 69 year old Guarantee: Satisfaction or Your Money Back shown on back pages of this catalog. It protects you on every purchase you make at Wards. You Must be pleased!

Western Saddles



Wards Farm Saddle

- Russet Skirting Leather.
- Barred Border.

$27.50 Cash
$4 Mo. See Back Cover

14-inch tree. Steel fork, horn.
Seat—1-piece, 4-in. cantle.
Rigging—Double. 1-in. latigoes. 15-strand cotton cinch.
Skirts—Square style, 11 by 21 in. Full sheepskin lined.
Stirrup Leathers—Adj. style. 1½-in. wide. Wood stirrups.
487 A 1069—Ship. wt. 23 lbs. Cash.....$27.50
Economy Saddle—similar to above but lighter weight with 2-piece seat, 3½-in. cantle. 11 by 20-in. felt lined skirts.
487 A 1011 — 13½-in. Tree. Ship. wt. 16 lbs. Cash..$19.50
487 A 1012 — 14½-in. Tree. Ship. wt. 18 lbs. Cash..$19.95

All-Purpose Saddle

- Russet Leather. Rawhide Covered Tree.

$37.50 Cash
$5 Mo. See Back Cover

Good, all around Western rig for the man who spends hours in the saddle.
Tree—14½-in. Strongly built. Steel horn. Full 12-in. swell.
Seat—One-piece. 4-in. cantle.
Rigging—Single, three quarters style. 1⅜-in. latigoes. 15-strand strong cotton cinch.
Skirts—Round, 11½ by 23 in. Sheepskin lined. 8 by 15-in. fenders. 2-in. stirrup straps. Metal bound wood stirrups.
487A1006-Wt. 25 lbs. $37.50
487 A 1005—Square skirts, double rig. Shipping weight 28 lbs. Cash Price.....$40.50

Heavy Range Saddle

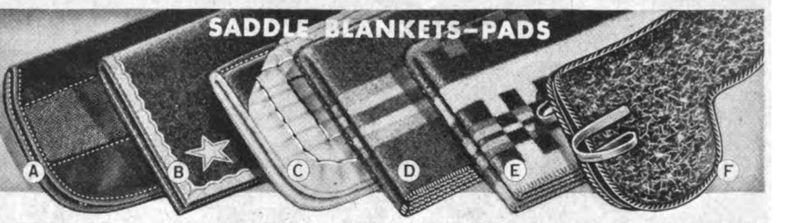
- Finest Type Western Tree.
- Hand Stamped.

$42.50 Cash
$5 Mo. See Back Cover

Sturdy, comfortable—ideal for range riding. Made from finest clear Russet skirting leather.
Tree—14-in. covered with varnished rawhide. Horn bolted on.
Seat—One-piece. 2½-in. cantle.
Rigging—Single ¾ style. 1½-in. latigoes. 5-inch cotton cinch.
Skirts—Round corners. 11½ by 23 in. Sheepskin lined. 2-in. stirrup leathers, 8 by 15 in. fenders. Metal bound stirrups.
487A1050—Wt. 25 lbs... $42.50
With square skirts, 15-in tree, 3-in. cantle and double rigging.
487A1068—Wt. 26 lbs... $44.50

Terms on Saddles and Riding Equipment; Inside Back Cover.





Riding Martingale

Russet saddle leather. 1¼-in. breast strap. ⅝-in. neck. Adj. loop end. Nickeled buckles, rings. Strong leather loops, securely stitched laps.
87 A 1090—Wt. 14 oz. Ea..$2.45

English Style $5.25

Russet leather. Smooth bit. ⅞-in. cheeks. 1⅜-in. crown. ½-in. throat. 4½-ft. reins. ¾ in. wide. Ship. wts. 2 lbs. 12 oz., 2 lbs. 4 oz.
87 A 1118—**Double Reins.** Each.....$6.95
87 A 1119—**Single Reins.** Each.....$5.25

Ring Crown $3.49

Russet saddle leather. 1⅛-in. crown. ⅞-in. double cheeks. ¾-in. front. ⅞-in. by 6-ft. reins with quirt ends. ½-in. throat and curb strap. Comfortable low port bit. Ship. wt. 2 lbs. 4 oz.
87 A 1106—Each.....$3.49

Double Crown

Pliable russet leather. Adjustable ¾-in. double head-stall, buckle on top. ¾-inch noseband. ½-inch curb strap. ¾-inch by 6-ft. reins. Port bit.
87 A 1110—Wt. 2 lbs. Ea..$3.29

Russet Bridle $5.49

Fancy basket stamped design on cheeks, nose and browband. Tapered 1 to 2¼-in. cheeks. 1½-in. front. Port bit. 1-in. by 7-ft. reins. Ship. wt. 3 lbs.
87 A 1099—1½-in. noseband $5.49
87 A 1098—Without noseband.....$4.98

FREE—
12 PAGE BOOK OF WESTERN RIDING GEAR! *Write today* for your *free* copy. Illustrates and describes Chaps, Saddles, Spurs, Blankets, Clothing, etc. for men and women.

Ⓐ **Porous India Fiber**—5-ply reinf. brown jute felted fabric. 26 by 35 in. Ship. wt. 4 lbs.
87A8618—Each $1.29

Ⓑ **Bluish-Gray Felt**—24x35 in.
87 A 8602—**Heavy.** Ship. wt. 1 lb. 12 oz. Each.....$2.25
87 A 8601—**Medium.** Ship. wt. 1 lb. 4 oz. Each.....$1.79

Ⓒ **Quilted Pad**—Heavy yellow cotton drill—composition stuffed.
87 A 8604—23x31 in. Ship. wt. 3 lbs. Ea.....98c
87 A 8613—27x35 in. Ship. wt. 4 lbs. Ea.....$1.10

Ⓓ **Striped Gray Blanket**—33⅓% reprocessed wool; bal. cotton, rayon. 30x60 in. Wt. 3 lbs.
87 A 8606—Each.....$1.98
Lighter Weight Blanket
87 A 8621—Ship. wt. 2 lbs. 3 oz. Ea.....$1.59

Ⓔ **Indian Pattern**—Abt. 25% re-used wool, balance cotton. Tan and Black plaid. Red middle stripe. Full 30x60 in. Our best blanket. Wt. 2 lbs.
87 A 8619—Each.....$2.98

Ⓕ **Ventilated Pad**—Soft felted hair face. Edges bound with heavy web. Brown color. Size 30x22 in. 2-strap fastener. English cutaway style. Absorbent. Ship. wt. 1 lb. 12 oz.
87 A 8626—Each.....$1.69



Ⓖ **Pony Stirrup**—Leather covered wood. Fits straps to 1½-in.
87 A 2417—Wt. 1 lb. 6 oz. Pr. $1.35

Ⓗ **Pony Girth**—3 in. by 24 in. White cotton webbing. 2-in. rings.
87 A 2416—Ship. wt. 7 oz. Ea...49c

Ⓙ **Malleable Pony Bit**—3¾-in. mouth. Ship. wt. 12 oz.
87 A 8224—Each.....49c

Ⓚ **Play Spur**—Cad. plated steel. Rubber rowel. Leather straps.
87 A 2465—Ship. wt. 5 oz. Pr....59c

Ⓛ **Boy's Malleable Spur**—10-point metal rowel and drops. Leather straps. Shipping weight 8 oz.
87 A 2466—Pair.....98c

Ⓜ **Pony Snaffle Bit**—Malleable. Cad. plted. Jointed. 4¼-in. mouth.
87 A 2463—Ship. wt. 19 oz. Ea..49c

Ⓝ **Boys' Lariat**—Solid braided Sampson Spot cord. 20 ft. long. Leather covered honda. Spinning instructions included.
87 A 8577—Wt. 14 oz.98c

Ⓟ **Pony Blanket**—Bluish Gray felt. Bright colored border, star. 20x28 in. Ship. wts. 1 lb. 4 oz.
87 A 8610—Hv. wt. $1.75
87 A 8609—Med. wt. 1.35

Hair and Fiber Blanket—5-ply heavily reinforced brown jute felted fabric. 19 by 27 inch Bound edge. Shipping weight 2 pounds 6 oz.
87 A 8622—Each....$1.19

Pony Bridle $2.15

Russet leather. 1¼-in. single strap crown. ¾-in. buckled cheeks. ¾-in. browband. ½-in. curb strap. 4-ft. reins. Port bit. Shipping weight 1 lb. 12 oz.
87 A 1107—Each.....$2.15

For Terms on Saddles at Right, See Inside Back Cover

Saddle, Martingale and Bridle $38.75 Cash

Complete

Saddle—Russet leather. Nickel plated spots. 12-in. tree. 1-piece seat. 4-inch cantle. 10 by 20-inch lined skirts. 1¼-inch stirrup straps. Leather covered wood stirrups. Single, 15-strand Cotton cinch.
Martingale—¾-in. adjustable straps. ¾ to 1½ in. neck strap. Nickel plated spots.
Bridle—⅝ to 1½-in. cheeks, front and noseband. Port bit. ¾-in. reins. Nickel pltd. spots. *Mailed from* near Chicago in about 5 days.
M287 A 1072—**Complete Outfit.** Terms: Inside Back Cover. Wt. 26 lbs. Cash....$38.75
M287 A 1077—**Saddle only.** Wt. 23 lbs. 27.75
M287 A 1079—**Martingale.** Wt. 1 lb.. 4.95
M287 A 1078—**Bridle only.** Wt. 2 lbs.. 7.95

Stockman Junior $17.95 Cash

Tree—12-inch. Nickeled horn.
Seat—Calfhide. 2 in. high cantle. 9x18 in. lined skirts.
Stirrups—Wood, Leather guards.
Rigging—Double. 3-in. cotton web cinches. 1-in. latigoes. Nickeled spots on skirts, stirrup hoods, fenders. **Shipped from Stock.** *Mailable.*
487A1014-Wt. 16 lbs...$17.95
487 A 1015—As above except no spots. Leather covered horn. Ship. wt. 13 lbs....$15.25

$20.95 Cash

Texas Pony Saddle

Looks like a real roping saddle.
Tree—Texas style. Heavy duty leather covered steel horn.
Seat—Full 11 or 12 in. size.
Skirts—8½ by 18¾ in. size. Round style. Soft felt lined.
Stirrups—Bent wood, leather covered. 1¼-in. stirrup straps.
Cinch—15-strand heavy cotton. **Shipped from Stock.** Shipping weight 17 lbs. *Mailable.*
487 A 8513—11-in. tree. $20.95
487 A 8514—12-in. tree. 21.50



Leather Body Belt—Sponge Rubber Back $3.35

Ⓢ Soft, oiled russet grain leather. Sponge rubber back supports—takes the aches out of riding. Form-fitting shape—designed by a physician. 6 in. wide. EVEN SIZES: 32 to 44 in. **State waist size.**
87 A 2412—Wt. 1 lb. 12 oz..$3.35

Split Chrome Leather Gray Body Belt $1.85

Ⓣ Black spade and diamond trimmed, 6 in. wide. Nickel plated studs. EVEN SIZES: 32 to 38 in. **State waist size.**
87 A 8531—Ship. wt. 14 oz..$1.85

Leather Wristband

Pliable leather, 2¾ in. wide. Ship. wt. 4 oz.
87 A 852 3—Each..25c

Ⓤ **Shot Loaded Center**—Braided white cowhide cover. Ship. wts. 2 lbs. 8 oz.
87 A 972— 6 ft. long. Each.....$1.49
87 A 972— 8 ft. long. Each..... 1.69
87 A 973—10 ft. long. Each..... 2.25
87 A 987—12 ft. long. Each..... 2.65

Ⓥ **Stock Yards Rawhide Buggy Whip**—Extra large flexible rawhide and reed center. Linen color. Ship. wt. each, 1 lb.
587 A 988—Each.....$2.59

Ⓧ **Revolving Wood Handle Whip**—6-plait braided rawhide cover over leather filled center. Hand shaped smooth wood handle—stays in one position in hand regardless of wrist movement. Ship. wts. 1 lb. 4 oz., 1 lb. 8 oz., 1 lb. 12 oz.
87 A 964— 6 ft. long. Each.....98c
87 A 965— 8 ft. long. Each.....$1.29
87 A 966—10 ft. long. Each..... 1.49

Ⓦ **Riding Whip**—Sturdy rawhide and reed center. Light linen color. Ship. wt. 7 ounces.
87 A 992—3 ft. long. Each.....49c

Texas Cotton Cord
Mexican style. 3-in. rings. 31-in. overall. Woven bars. Wt. 1 lb.
87A1094—23 strands, 4 in. wide. Each...49c
87A1095—31 strands, 6 in. wide. Each...69c

Soft Hair Cinches—3 in. iron rings. Woven bars. Wt. 1 lb. 4 oz.
87A1171—23 strands, 4 in. wide. Each...65c
87A1172—35 strands, 6 in. wide. Each...75c

Fish Cord Cinches
Hard twisted and braided smoothly into 3-in. iron rings. Reinforced bars in center. 58 strands. Wt. 1 lb. 4 oz.
87 A 1175—5 in. wide. Each...98c

Ⓐ **Bent Wood Stirrups**—Fits straps up to 2¼ in. wide.
87 A 1142—Wt. pr. 1 lb. 4 oz. 49c

Ⓑ **Riding Bit**—Malleable iron. XC finish. 4½-in. mouth.
87 A 8238—Ship. wt. 1 lb. Ea. 59c

Ⓒ **Port Bit**—Cadmium plated malleable iron. 4½-in. mouth.
87 A 8223—Ship. wt. 1 lb. Ea. 59c

Ⓓ **Mule Port Bit**—Black japanned malleable iron. 4⅝-in. mouth.
87 A 8240—Wt. 1 lb. 4 oz. Ea. 59c

Ⓔ **English Style Spurs**—Malleable. ⅞-in. rowel. Straps. Wt. pr. 12 oz.
87 A 1229—Nickel Pltd. Pr. $1.29
87 A 1231—Cad. Pltd. Pr.....89c

Ⓕ **Mexican Style Spurs**—Filed malleable iron. 1⅜-in. rowel.
87 A 1232—Wt. pr. 10 oz. Pr..98c

Ⓖ **Spur Straps**—Russet leather.
87 A 1165—Wt. 7 oz. Pr...79c

Ⓗ **Russet Leather Stirrup Straps**—riveted-in liner. Embossed border. 5½ ft. long. Ship. wts. pr. 2 lbs. 4 oz.; 2 lbs. 8 oz., 3 lbs. 8 oz.
87 A 1156—2 in. Pr... $2.95
87 A 1157—2½ in. Pr.. 3.85
87 A 1158—3 in. Pr.. 4.65

Ⓙ **Latigo Leather Cinch Straps**—Punched holes.
87 A 1148—1¼ in. by 5 ft. Ship. wt. 10 oz. Each.....69c
87 A 1149—1½ in. by 5 ft. Ship. wt. 12 oz. Each.....89c
87 A 1147—1¾ in. by 6 ft. Ship. wt. 1 lb. Each.....$1.15

Ⓚ **Russet Leather Bridle Reins**—Metal loop style. Quirt ends. 6 ft. long. Ship. wt. pair, 12 oz.
87 A 1151—¾ in. Pair...89c
87 A 1152—⅞ in. Pair..$1.00

Strong Manila Rope Lariats $1.19

Black Jack Manila—4 strand. 7/16 in. Braided horn loop and Brass honda.

Ft.	Ship. wt.	Art. No.	Each
30	2 lbs. 2 oz	87A1214	$1.19
35	2 lbs. 12 oz	87A1217	1.35
40	3 lbs. 4 oz.	87A1218	1.50

Yacht Manila. 4-strand 7/16 in. tight laid water resisting rope. Brass honda.

Ft.	Ship. wt.	Art. No.	Each
30	2 lbs. 8 oz	87A1207	$1.39
35	2 lbs. 12 oz	87A1215	1.55
40	3 lbs.	87A1216	1.70
45	3 lbs. 8 oz.	87A1219	1.85

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Get Easier Pulling With
LO-LOAD FEATURES

- **Easier Loading – Low down, bed is just 15 to 17 inches from ground.**
- **Faster Hauling – With Timken bearings and the low center of gravity.**
- **Bigger Pay Loads – Low bed takes higher load – 1 extra in every 4.**
- **More Safety – With Timken bearings, Oilite bushings, Bendix Brakes.**



Timken Bearings
More than $35 worth at current list prices. For higher speed, smoother running, easier pulling.



Oilite Bushings
Chrysler made. The same self-lubricating bronze bushings that make your car easy turning for itslife.



Haul Bigger Loads
Pile up loads higher a wider. Lo-Load can ha it. Low center of grav prevents tipping and sw

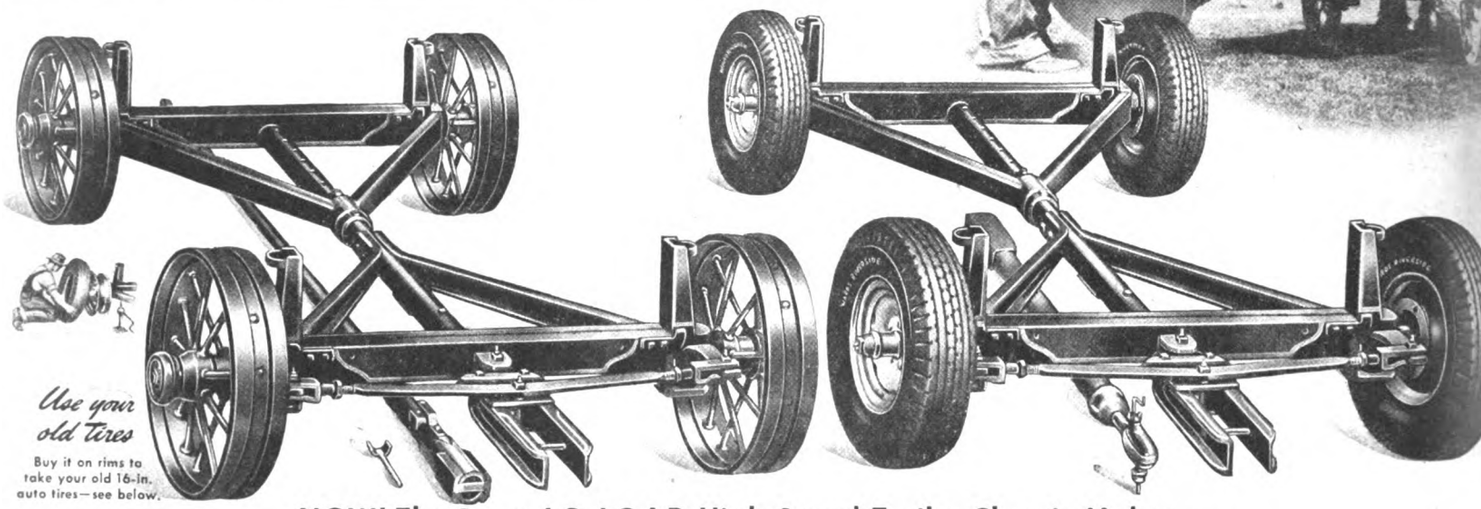
Look! Back-Saving, light draft and safety features as modern as any automobile. Built for highway or field use. Timken roller bearings and Oilite steering bushings for high road speeds. It rolls so easily a light team walks away with full loads. The rugged steel frame is arc welded for strength (only 17 bolts with lock nuts used). The low center of gravity and auto steer feature prevent tipping and sway—permits higher loads. 4-Wheel Bendix vacuum brakes are extra equipment (see below).

SPECIFICATIONS

AXLES: 3 by 4 in. arc-welded box sections. Alloy spindles. Channel steel hounds. 60-in. track.
HITCH: Extends 22 in. Clearance for 16-ft. rack. Equipped with anti-rub to prevent tires rubbing.
REACH: Telescoping. Adjusts from 7 ft. 2 in. to 11 ft. 6 in. to take wagon box or 16-ft. rack.
BOLSTERS: Adjustable. Take 38-in. or 42-in. box.
WHEELS: Demountable disc type for rubber tires on trailer. Deep Groove type on truck. Alemite lub.

Pay as you earn: Order Now! Use Lo-Load features to haul faster—to haul bigger loads and increase your income. Then pay on convenient monthly terms.





Use your old Tires
Buy it on rims to take your old 16-in. auto tires—see below.

NOW! The Same LO-LOAD High-Speed Trailer Chassis Makes . . .

A Steel Wheel Farm Truck or Wagon

$71.95 Cash
$7 A MONTH

Now! The same smoothness and light draft of a $125 high-speed trailer in your farm truck. Increases load capacity. Deep Groove steel wheels and steef tongue for horses. Ball and Socket trailer hitch at same price if specified. Trailer hitches and other extras listed below. **Shipped from Baltimore or Albany.**

Article No	Wheel	Spokes	Tires	Cap.	Wt.	Price
187A7450	24 in.	10—½ in.	4x3/8 in.	5000	520 lbs.	$71.95
187A7452	28 in.	12—½ in.	4x3/8 in.	5000	550 lbs.	75.95
187A7453	28 in.	14—5/8 in.	4x1/2 in.	6000	635 lbs.	81.95

A Trailer or Truck With Your Old Tires

$82.95 Cash
$7 A MONTH

Use your old auto tires. Makes a high-speed trailer or rubber-tired farm truck. Demountable disc wheels with rims to take any 16-in. tires size 5.50, 6.00, 6.50 or 7.00. Often you can pick up good used tires locally. 5-ft. tubular steel, ball and socket hitch for use behind autos. All steel wagon tongue furnished at same price if specified. Capacity depends upon the condition of the tires you use. **Shipped from Baltimore or Albany.**

Article No.	For Tires	Rated Capacity	Ship. Wt.	Price
187 A 7466	16 inch	4500 lbs.	477 lbs.	$82.95

A Trailer or Truck With Brand New Tires

$129.00 Cash
$9 A MONTH

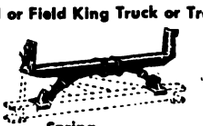
The lowest loading, lightest draft, high-speed trail made. It's patented—sold only by Wards. Demount able disc wheels with 4-ply Ward Riverside tires an tubes. With these new tires you can use full load overload capacities. (If wanted without tires ord No. 187 A 7466 at left.) 5-ft. ball and socket hitch fo use behind autos. All steel wagon tongue furnished at same price if specifie on order. For spring equipment and highway brakes see listings below Capacities are rated on new tires. **Shipped from Baltimore or Albany.**

Article No.	Tire Size	Rim Size	Capacity	Wt. Lbs.	Price
187 A 7467B	6.00-16	16 in.	4500 lbs.	609	$129.00

EXTRAS—For Any Lo-Load or Field King Truck or Trailer—See Inside Back Cover For Monthly Terms



Spring Cradle $39.95
Gives motor truck springing to any Lo-Load or Field King trailer or farm truck. Includes bolsters with adjustable stakes, two 10 ft. channel steel side members, 4 heavy duty 6-leaf, 32¾ by 1¾-in. truck springs and 4 booster springs that help cushion load from 1000 to 6200 lbs. Easily removed from gear. **Shipped from** Baltimore or Albany.
187 A 7468—Ship. wt. 310 lbs.....$39.95



Spring Bolsters $19.95
Channel steel. Clipped to 9-leaf, 2¼ in., 5000 lb. capacity truck springs with big "U" bolts. Use adjustable bolster stakes on your Lo-Load. Spring perches included. **Shipped from** Baltimore or Albany. Wt. pr. 80 lbs.
187 A 7469—Pr.$19.95

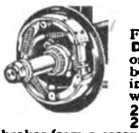


For Horses and Tractor **$9.75**

187 A 7964—Combination Tongue or Tractor Hitch. A wagon tongue for your team—hinged to fold back and make stub hitch with clevis. Oak pole. Ship. wt. 50 lbs.....$9.75
EXTRA: For above hitch in place of regular horse tongue or auto hitch specify and add.....$4.00

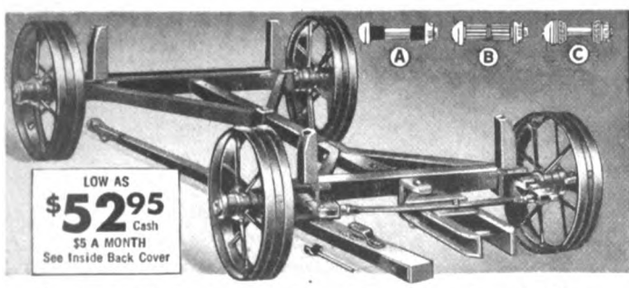
$5.50

187 A 7456 — 5 ft. oak Tractor Hitch. Ship. wt. 30 lbs.....$5.50
When so ordered we ship above tractor hitch in place of tongue or trailer hitch.
587 A 7461 — Stiff tongue attachment. Including 2 plates and pole cap with chains Ship. wt. 6 lbs.....$2.10
487 A 7660 — Doubletree, singletrees and neckyoke. Ship. wt. 36 lbs. Set **$4.25**
187A7455—Gear brake. Friction blocks work only on steel tires. Wt. 57 lbs. **$8.25**

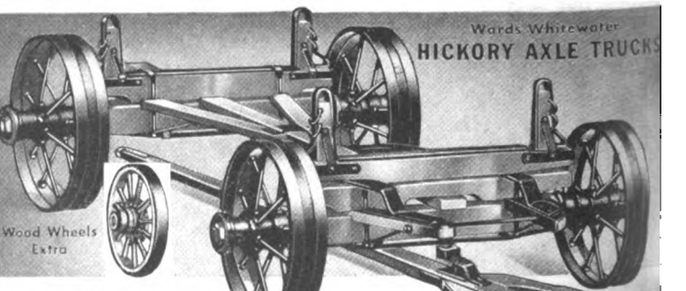


BENDIX 4-Wheel Vacuum Brakes
For high speed highway trailer hauling. Fo **Disc Type Wheels.** Same reliable brakes use on cars and trucks. Not sold separately—must be built in and shipped with your trailer (with in 10 days, from Factory in Quincy, Ill. Shi wt. 60 lbs.
287 A 7478—Above brakes installed. $85.0
287 A 7476—Controls to operate sam brakes from a second towing vehicle. Ship. wt. 15 lbs.....$21.4

2-Wheel Hand Brakes for Rubber Tires
For the Lo-Load or Field King. Two 11 by 1¾-in. drums fit re wheels. Rope Control. Not sold separately—must be built i and shipped with your trailer or truck from Factory in Quinc Ill. in about 10 days.
287 A 7433—Gear Brake installed. Ship. wt. 30 lbs.....$19.0
287 A 7431—Parts with rope and pulleys to operate ov loaded hay rack. Ship. wt. 5 lbs.....$2.0
287 A 7432—Wagon box lever with ratchet and rod. Attach to wagon box and connects to brakes. Ship. wt. 20 lbs.....$4.0







Wards Field King—Low Priced Farm Truck or Trailer

You get many Lo-Load features described above even at this low price. Low down—easy to load (15 in. with 24-in. wheels). Auto steer—tracks perfectly and has 4-corner load suspension. Telescoping reach takes up to a 14-ft. hay rack.
Axles: 3-inch channel box section in both front and rear.
Reach: Telescopes from 7 ft. 2 in. to 9 ft.
Bolster Stakes: Adjust to 38 or 42 in.
Auto Steer: Turns in 20½-ft. circle.
Hitch: Extends 22 in. from the axle.
Track: Regular auto width, full 60 in.
Road Clearance: 10½ in. with 24-in. wheels; 12½ in. with 28-in. wheels.
Tongue: Oak, drop type. 11 ft. 8 in.
Wheels: Deep Groove spoke type with (A) renewable, steel backed bronze bushings or (B) plain roller bearings on 1⅝-in. spindles. No. 187 A 7439 only has (C) demountable disc wheels with Timken Roller Bearings on Nichrome steel 1⅜-in. spindles. Alemite lubricated. **Shipped from** Baltimore or Albany.

	Article No.	Price	Ship. Wt.	Wheel	Spokes	Tires	Load
Bronze—Steel Bushings	187 A 7440	$52.95	545 lbs.	24 in.	10—½ in.	4x3/16	5000 lbs.
	187 A 7442	54.95	569 lbs.	28 in.	12 ½ in.	4x3/16	5000 lbs.
Roller Bearings	187 A 7436	54.95	490 lbs.	24 in.	10 ½ in.	4x3/16	5000 lbs.
	187 A 7438	57.95	515 lbs.	28 in.	12 ½ in.	4x3/16	5000 lbs.

187 A 7443 - Extra for longer 12-ft. channel reach. Wt. 12 lbs. State and add.....95c

TIMKEN BEARING FIELD KING TO USE YOUR OLD TIRES

187 A 7439—Field King high-speed trailer with disc wheels (same as at top of page) with dust-sealed Timken Bearings. Capacity 4000 lbs. Uses any 5.50 to 7.00 by 16-in. tires (tires not included). Ball and socket hitch. Ship. wt. 465 lbs.....$

Plenty of Iron Bracing

$49.95 Cash
Only $5 a Month—See Inside Back Cover

- **Heavy angle steel front hound with air seasoned oak filler.**
- **Four round steel hound braces double bolted. Axle clips.**
- **Skein to skein truss rods under both big hickory axles for strength.**

Whitewater Trucks are famous for their long life because every bit of gear is selected, air-seasoned oak or hickory. Gears are mortised and clipped—reinforced with iron bracing for strength.
Axles: Mountain grown hickory, air-seasoned at least two years. 3½ by 4½-in. blocks dressed down ⅛ in.
Steel Wheels: Wards Deep Groove steel wheels with 4 by ⅜ in. rims and big ½-in. spokes. Full 5000-lb. capacity.
Wood Wheels (See small picture): Hickory or oak spokes, oak rims and hubs with 3 by ⅜-in. tires (2 by ⅝-in. tires at same price when specified). Capacity 5500 lbs.
Track: 56-in. Bolster stakes 38 in. apart. (See "Extras" for 60-in. track.)
Reach: Oak, adjustable from 7 ft. 2 in. to 9 ft. 4 in.—takes 14-ft. hay rack.
Gear turns in 23½-ft. circle. Drop tongue 11 ft. long. Cast skeins 3¼ by 10 in. Truck painted deep Orange.
Shipped from Factory near Richmond, Va. or Elmira, N. Y. in about 4 days. See Back Cover for Terms.

Size of Wheels		WITH STEEL WHEELS			Size of Wheels		WITH WOOD WHEELS		
Front	Rear	Article No	Wt Lbs	Price	Front	Rear	Article No.	Wt. Lbs	Price
24 in.	28 in.	287A7600	545	$49.95	32 in.	36 in.	287A7603	615	$67.50
28 in.	32 in.	287A7608	550	52.95	36 in.	40 in.	287A7604	681	68.50
32 in.	36 in.	287A7627	610	54.95	40 in.	44 in.	287A7642	721	70.50

EXTRAS—For Whitewater Trucks

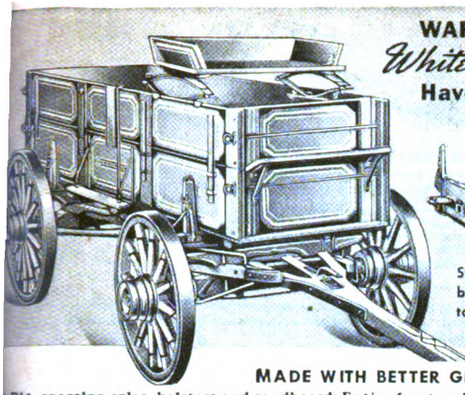
Same shipping points as trucks.
287 A 7669—Oak stub tractor hitch. Ship. wt. 40 lbs.....$5.7
(Above tractor hitch shipped in pla of tongue when requested on order.)
287 A 7661—11½-ft. stiff tongue in place of drop tongue. Add.....$2.9
287 A 7662—12-ft. reach in place of 9½-ft. Ship. wt. 4 lbs. Add.....6
287 A 7668—For wide (60-in.) trac with bolster stakes spaced 42 in. apart. State on order and add.....$2.0
287 A 7663—Ge ar br ake. Adjustab roller for all wheel diameters. Ship. wt. 60 lbs.....$8.0

USE YOUR OLD TIRES
287 A 7691—For truck No. 287A76 (at left) with drop center rim wheels to take new or used 5.50, 6.00, 6.50 or 7.00 x 16-in. tires (tires not included). Add.....$4.0

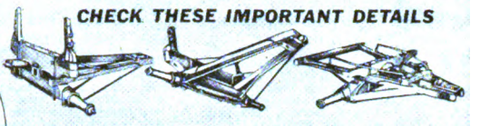
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WARDS Whitewater FARM WAGONS

Have Oversize Heavily Ironed Gears!



CHECK THESE IMPORTANT DETAILS



Steel braced from bolster and axle to heavy hounds.

Big truss rod from skein to skein. Strong axle clips.

4 big braces and truss rod on front axle and hound.

MADE WITH BETTER GEAR—BETTER BOX—AND BETTER WHEELS

- Big, oversize axles, bolsters and sandboard. Entire front and rear gear dressed down and shaped from selected oak or hickory which has been air seasoned for fully two years.
- Box is grain tight with one-piece, selected, boxboard grade sides and tongued and grooved floor. Folding end gate, 6 sills, 6 steel side braces and four hold-down rods.
- Wheels boiled in linseed oil and painted. Steel banded, bone dry, seasoned oak hubs, bent oak rims riveted between oak or hickory spokes, welded, clipped and bolted tires.

$92.95 Cash Less Seat

$8 A MONTH

SEE BACK COVER

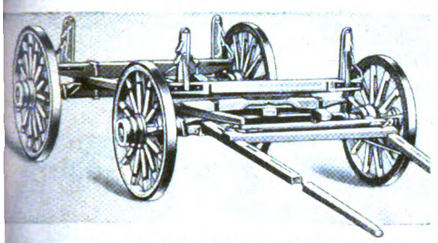
Look at the pictures; See how we build extra strength into Wards Whitewater Wagons with the best grade of wood and plenty of rugged, iron bracing. Yet with all its superior strength you can own one of these wagons for as little as $7 a month. Skeins are cast with extra large bells and sand-proof collars. Paint finish neatly striped. Prices include tongue chains and hooks, also hickory doubletree set.

NOTE: Specify whether you want stiff tongue with double chains or drop tongue with hickory neckyoke.

IMPORTANT: State if 56-in. gauge with 38-in. bolsters or 60-in. gauge with 42-in. bolsters is wanted. State if (40-in. front, 44-in. rear) or (36-in. front, 48-in. rear) wheels are wanted. Shipped from near Evansville, Ind. in 4 days extra.

Skein Size In.	Tire Size In.	Box Dep. In.	Capacity Lbs.	Complete With Box: Article Number	Complete With Box: Cash Price	Ship. Wt. Lbs.	Without Box: Article Number	Without Box: Cash Price	Ship. Wt. Lbs.
2½ x 8	1½ x 1½	20	3000	287 A 7536	$92.95	900	287 A 7533	$69.50	650
2¾ x 8½	1½ x 1½	26	3500	287 A 7534	97.95	1000	287 A 7541	72.50	750
3 x 9	2 x 1½	26	5000	287 A 7535	101.95	1100	287 A 7542	77.50	850
3¼ x 10	3 x 1½	26	6000	287 A 7539	111.95	1250	287 A 7546	87.50	900
3½ x 11	3 x 1½	28	6500	287 A 7547	116.00	1300	287 A 7540	89.50	950

M287 A 7550—Spring seat. State 38 or 42-in. box. Wt. 35 lbs. . . $5.75
287 A 7552—Gear brake with box attachment. Ship. wt. 75 lbs. 9.25
287 A 7551—Gear brake. Shipping weight 65 lbs. 7.35
287 A 7553—10-in. tip-top. Shipping weight 70 lbs. 7.50
287 A 7554—For tires ½ inch wider. Extra. 3.75
287 A 7555—For tires ⅝ inch thick. Extra. 3.75



WARDS STURDY ONE-HORSE TRUCK

Rear bolster and front sandboard clipped to axle and hounds to form one solid unit. Selected hickory axles, 2⅝ by 3½ in. Selected square wood hounds, 4 braces on front hound, 2 braces in rear. Reach of oak, 7 ft. long. Tapered skeins, 2½ by 8 in. Heavy singletree. Wood wheels have oak hubs, hickory and oak spokes. Ship. wts. wood wheel truck, 347 lbs.; steel wheel 300 lbs. Shipped from Factory near Evansville, Ind. in 4 days.

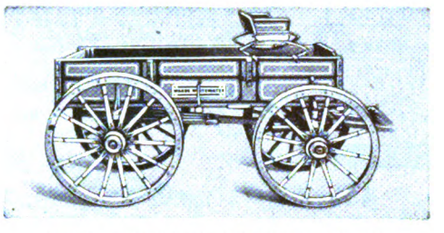
WIDE TRACK—60-in. Tread; 42 in. Between Stakes

Size of Wheels: Front	Rear	Wheels	Tire Size In.	Article Number	Price Each
30 in.	34 in.	Wood	2x5/16	287 A 7561	$39.95
24 in.	28 in.	Steel	3x3/8	287 A 7563	39.85

STANDARD TRACK—56 in. Tread; 38 in. Between Stakes

30 in.	34 in.	Wood	2x5/16	287 A 7560	$39.50
24 in.	28 in.	Steel	3x3/8	287 A 7562	39.40

For Drop Tongue Instead of Shafts add $1.50



WARDS ONE-HORSE FARM WAGON

Gear Air seasoned Hickory or Oak. Front wheels 40 in., rear 44 in. high. Rims riveted. Standard box 7½ ft. x 15 in. deep. For spring seat add $4.95. State narrow 56-in. or wide 60-in. tread. For gear brake with box attachment add $8.95. For 8½ ft. by 16-in. box add $2.50. Shipped from Factory near Evansville, Ind. in 4 days extra. Estimated capacities 1600 and 2000 lbs. Ship. wt. without box 450 lbs.; with box 650 lbs.

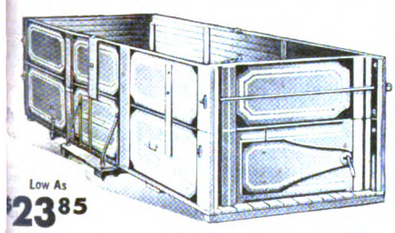
Cast Skeins, Oak Hubs and Hickory Axles

Skein Inches	Tire In.	With Box: Art. No.	With Box: Each	Without Box: Art. No.	Without Box: Each
2¼ x 7	1¼ x 3/8	287 A 7694	$58.95	287 A 7695	$46.95
2½ x 8	1⅜ x 7/16	287 A 7696	63.95	287 A 7697	51.95

With Steel Axles and Steel Hub Wheels

Ship. wt. without box, 395 lbs.; with box, 560 lbs.

1¼ x 7	1¼ x 3/8	287 A 7688	$68.95	287 A 7698	$56.95
1⅜ x 7	1⅜ x ½	287 A 7689	76.50	287 A 7699	64.50



Low As **$23.85**

Wards Grain-Tight Wagon Box

- Sides are selected tongued and grooved Fir.
- 4 hardwood sills—floor double over bolsters.
- 2 hold-down rods—8 strap bolts on lower box.
- Grain cleats—edge iron on top and lower box.

Equipped with folding endgate. Painted dark green, 10½ ft. long. Shipped from Factory near Evansville, Ind. in about 4 days.

Article No.	Deptn	Width	Wt. Lbs.	Price
287 A 7673	20 in.	38 in.	280	$23.85
287 A 7674	20 in.	42 in.	295	23.95
287 A 7675	26 in.	38 in.	350	25.95
287 A 7679	26 in.	42 in.	365	28.95
287 A 7682	10 in.	Tip-top	75	8.50
M287 A 7684	Spring Seat		35	6.50

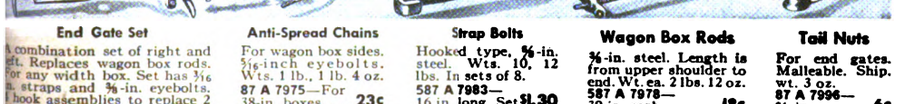


Cast Stone Boat Head

Use with 3 ten-in. planks, ⅝ in. bolt holes. Shipped from near Dayton, O. in 4 days. *Not Mailable.*

287 A 3594—Wt. 70 lbs. $4.25

WAGON BOX REPAIRS



End Gate Set

A combination set of right and left. Replaces wagon box rods. For any width box. Set has 3/16 in. straps and ⅜-in. eyebolts, 4 hook assemblies to replace 2 box rods. Ship. wt. 4 lbs.

87 A 7977—Set. 75c

Anti-Spread Chains

For wagon box sides. 5/16-inch eyebolts. Wts. 1 lb., 1 lb. 4 oz.

87 A 7975—For 38-in. boxes. . . . 23c

87 A 7976—For 42-in. boxes. . . . 26c

Strap Bolts

Hooked type, ⅝-in. steel. Wts. 10, 12 lbs. In sets of 8.

587 A 7983—16 in. long. Set $1.30

587 A 7984—18 in. Set. 1.50

Wagon Box Rods

⅜-in. steel. Length is from upper shoulder to end. Wt. ea. 2 lbs. 12 oz.

587 A 7978—39-in. each. 18c

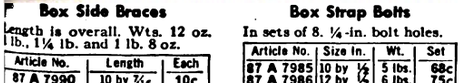
587 A 7979—43-in. each. 19c

Tail Nuts

For end gates. Malleable. Ship. wt. 3 oz.

87 A 7996—⅝-in. 6c

87 A 7997—7/16-in. 6c



Box Side Braces

Length is overall. Wts. 12 oz. 1 lb., 1¼ lb. and 1 lb. 8 oz.

Article No.	Length	Each
87 A 7990	10 by 7/16	10c
87 A 7991	12 by ½	12c
87 A 7992	14 by ½	13c
87 A 7993	16 by ½	14c

Box Strap Bolts

In sets of 8. ¼-in. bolt holes.

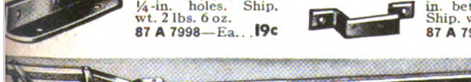
Article No.	Size In.	Wt.	Set
87 A 7985	10 by ½	5 lbs.	68c
87 A 7986	12 by ½	6 lbs.	75c
87 A 7987	14 by ½	7 lbs.	80c
87 A 7988	16 by 5/16	8 lbs.	95c
87 A 7989	18 by ⅝	10 lbs.	$1.20



Heavy Gauge Steel Stake Pockets

9c ea. For truck beds, drays and wherever stakes are mounted on beds. All pockets have 7/16-in. square holes. (A) and (C) are 10-gauge steel. (B) is 11-gauge. Stake size for (A) is at top of opening. Shipping weights (A) 1 lb. 4 oz.; (B) 1 lb.; (C) 12 oz.

Style	Stake Size	Width	Shape	Art. No.	Price
(A)	1½ x 2⅞	3 in.	Tapered	87A7955	9c
(B)	1½ x 3¼	2½ in.	Straight	87A7956	9c
(C)	1½ x 3¼	2 in.	Straight	87A7957	9c



Angle Rub Irons

2 by 2 by 3/16 by 10 in. ¼-in. holes. Ship. wt. 2 lbs. 6 oz.

87 A 7998—Ea. . 19c

Wagon Box Staples

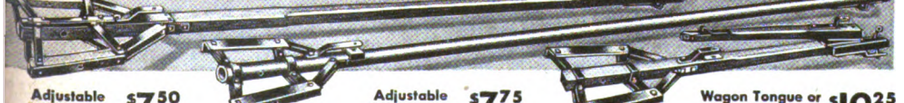
2-in. pocket. 3½ in. between holes. Ship. wt. 1 lb.

87 A 7974—6. . 15c

Box Edge Iron

Steel. Beveled edges. Width ¾ in. Length 14 ft. Ship. wt. 4 lbs. *Mailable.*

87 A 7995—Each. 34c



Adjustable Oak Tongue $7.50

Straight grained, seasoned oak 11½ ft. long. Pole is 3½ by 3½ in. thick. Tongue hounds adjust 15 to 22½ in. at rear and 10 to 16½ in. at front. Painted red. Shipped from Stock in Baltimore or Albany.

87 A 8911—Ship. wt. 55 lbs. $7.50

Tongue Without Irons, Painted

11½ ft. long. Shaped but not bored.

87 A 8900—3½ by 3½ in. Wt. 35 lbs $2.40

87 A 8901—4 by 4 in. Wt. 45 lbs. 3.40

Adjustable Steel Tongue $7.75

Stronger! More durable than wood. Cannot warp or rot. Hounds adjustable from 15½ to 22 in. at wide end. Made of 11-gauge tapered steel, yet it weighs no more than a wood tongue. 11½ feet long. Implement paint finish. Ship. wt., 52 lbs. Shipped from Stock in Baltimore or Albany. For Time Payment Terms see Inside Back Cover.

187 A 8915. . . . . $7.75

Wagon Tongue or Tractor Hitch $10.25

Like 187 A 8911 wagon tongue at left except of oak with patented hinged irons at center. Permits wagon tongue to fold and form stub tractor hitch. Shipped from Stock in Baltimore or Albany. *Not Mailable.*

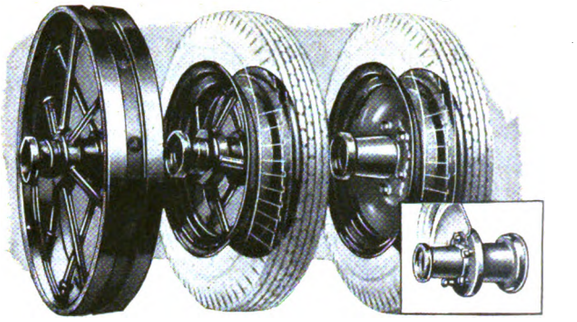
187 A 7963—Ship. wt. 70 lbs. $10.25

487 A 7949—Irons only to convert any oak tongue into a combination folding hitch for use with horses or tractor. Instructions included.

Shipping weight 19 pounds. $3.65

STEEL WHEELS

For Farm Trucks, Wagons



Ready Made Deep Groove Wheels

AS LOW AS **$47.0**

Stronger and last longer than ordinary type for 4 reasons: (1) The big ½-in. spokes have wide shoulders drawn tight at hub and tire. (2) Spokes are hot forged into hub and tire. (3) Hubs are larger—have more bearing surface. (4) Tires are 4 in. wide and full ⅝ in. thick—have a deeper groove—give longer wear and protect spoke ends longer. State Hub No. for your size skein. Shipped from Stock in Baltimore or Albany.

Article Number	Height Wheel	Wt. Lbs.	Price Each
187 A 9220	24 in.	57	$4.70
187 A 9221	28 in.	64	5.40
187 A 9223	32 in.	73	6.25
187 A 9225	36 in.	83	7.25

Drop Center Wheels for Use With Rubber Tires

Spoke Type **$5.90** Disc Type **$5.90**

Use your old tires! Put your farm truck or wagon on rubber for faster hauling—smoother riding—and easier pulling. Easier on you and your team for field use or on the highway.

The same high grade construction as our Deep Groove Wheels at left in both spoke and disc type. The drop center rims take any 5.50, 6.00, 6.50, or 7.00 x 16-in. tire. Shipped from Stock in Baltimore or Albany.

SPOKE TYPE Drop Center Wheel

187 A 9111—Comes in hub sizes below at left. State Hub No. for your size skein. Ship. wt. 38 lbs. Each. $5.90

DEMOUNTABLE DISC Drop Center Wheel

187 A 9112—The same high-speed disc Wheel used on Wards Lo-Load trailer on opposite page. The demountable hub comes in hub sizes listed below at left. State Hub No. wanted. Ship. wt. 38 lbs. Each. $5.90

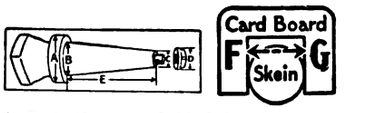
HOW TO MEASURE FOR READY MADE WHEELS

See "It's Easy to Get Perfect Fit" from diagram at right. Measure your old skein at "B," "C," and "E." If measurements correspond to any of the hub sizes in the table below, order Ready Made Wheels. (Otherwise order Made To Measure wheels below). State Hub No. for size of your skein. Shipped from Stock in Baltimore or Albany. See Back of Book for Freight Rates.

Fit These Skein Sizes

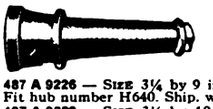
Our Hub No.	Length of Skein E	Diam. Large End B	Diam. Small End C
H643	10 in.	3¼ in.	2¼ in.
H94A	10 in.	3⅜ in.	2¼ in.
H640	9 in.	3¼ in.	2¼ in.

IT'S EASY TO GET PERFECT FIT



1—State diameter of old skein collar at (A)
2—State diameter of old skein at point (B)
3—State diam. of old skein at end (C)
4—State diameter of collar on nut (D)
5—State length of skein at (E)
6—State tire size and thickness

Measure diameter from side to side (not top to bottom) as skein is worn at bottom. Use calipers or stiff cardboard cut snug fitting like picture above. Measure (F) to (G) exactly—we allow for play. If skeins do not have straight taper at (E) write for Special Order Blank.



Cast Skeins to Fit Hub Sizes Above

Cast from finest pig iron—no scraps. State left or right on less than full set of 4. See diagram and hub sizes above for measurements. Shipped from Stock in Baltimore or Albany.

487 A 9226 — Size 3¼ by 9 inches (exact size 3¼ in. at "B" and 2¼ in. at "C"). Fit hub number H640. Ship. wt. 13 lbs. *Mailable.* Each. $1.55

487 A 9228 — Size 3¼ by 10 inches (exact size 3⅜ in. at "B" and 2¼ in. at "C"). Fit hub number H94A. Ship. wt. 15 lbs. *Mailable.* Each. $1.65

MADE TO MEASURE WHEELS—FIT ANY SKEINS

Made to order—to fit your old skeins. Read "It's Easy to Get Perfect Fit" above, and state all 6 measurements including tire size. Allow 7 to 10 days for building and shipping from Factory near Quincy, Ill.

Hgt. In.	Ship. Wt. Per Wheel Lbs.	Article Number	Capacity, 4000 to 5000 lbs. — Heavy ⅝-in. Tire; ½-in. Spokes Prices Per Wheel: Tire 3 by ⅝	Tire 4 by ⅝	Tire 5 by ⅝	Tire 6 by ⅝	Capacity, 5000 to 6000 lbs. — Extra Heavy ½-in. Tire; ⅝-in. Spokes Per Wheel: Tire 3 by ½	Tire 4 by ½	Tire 5 by ½
24	52 to 74	287 A 9100	$3.98	$4.95	$5.90	$7.60	$5.25	$6.15	$7.30
26	54 to 82	287 A 9101	4.45	5.25	6.40	8.30	5.70	6.90	8.30
28	58 to 90	287 A 9102	4.90	5.60	6.80	8.70	5.95	7.30	8.70
30	62 to 98	287 A 9103	5.15	6.10	7.30	9.20	6.20	7.50	9.20
32	66 to 107	287 A 9104	5.65	6.65	8.20	10.30	6.85	8.70	10.00
34	70 to 112	287 A 9105	6.00	7.20	8.40	10.70	7.70	9.10	10.50
36	74 to 118	287 A 9106	6.95	8.00	9.50	11.60	8.80	10.20	11.90
38	78 to 124	287 A 9107	7.15	8.40	9.90	12.00	9.10	10.75	12.50
40	82 to 135	287 A 9108	8.20	9.35	10.50	12.50	9.90	12.00	13.00

2 by ⅝-in. plain tires furnished at same prices as 4 by ⅝-in. tires.

Made to Measure Drop Center Rim Wheels with spokes. To take Rubber Tires size 5.50-6.00-6.50 or 7.00 by 16 in. Read "How to Order" Wheels above.

287 A 9113—Shipping weight 38 pounds. Each. $5.95

WAGON BOX REPAIRS—Save 25%

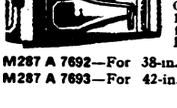


Shoveling Board

Tongued and grooved. For 38-in. box. Shipped from Factory near Cairo, Ill. in about 4 days. Shipping weight 50 lbs.

287 A 7685—Height 42 in. . . . $3.60

287 A 7686—Height 48 in. . . . 3.80



End Gate

Selected wood, 14 in. deep. Hinged. Painted Green. Wts. 13, 17 lbs. Shipped from near Evansville, Ind.

M287 A 7692—For 38-in. box. . . . $2.10

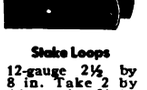
M287 A 7693—For 42-in. box. . . . 2.25



Rack Plates

Attach to sills and fit over bolsters. Prevent slipping. 2 x 2 x 3/16 in. steel. Wt. pr., 3 lbs.

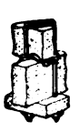
87 A 7965A Pair. 48c



Stake Loops

12-gauge 2½ by 8 in. Take 2 by 4-in. stake. 5/16-in. holes. Ship. wt. set 13 lbs.

587 A 7981—Set of 8. . . . . 98c



Hayrack Brackets

For new racks or repairs. Bolts, ⅝-in. diameter. Instructions, nuts and washers. In sets of 8.

587 A 392—Set of 14 in. Ship. wt. 12 lbs. . . . $1.28

587 A 393—Set of 16 in. Ship. wt. 12 lbs. . . . $1.38



Binding Hooks

For ropes, 4¼ by 1 by ¼ in. 5/16-in. holes. Ship. wt. ea., 8 oz.

87 A 7980—Each. . 9c

LOAD BINDER

Usual Retail Price About $2.70

$1.90 At Wards



Locks Load Tight

Applies leverage to rope or chain. Tightens binding—keeps load from shifting. Strong malleable iron. Double swivel. Takes up to ½-in. chain. Ship. wt. 7 lbs. *Mailable.*

487 A 8800—Each. $1.90

487 A 8802—Extra Heavy binder. Ship. wt. 9 lbs. . . $2.70

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STOCK UP—SAVE FREIGHT

$2 a Month Pays for a $14 Order

⅓ Under Usual Retail Price!

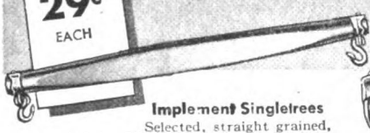


Full Backstrap Hickory Singletrees

We priced this sturdy, full-sized Singletree to give you the biggest value possible. You will marvel at such quality at our low price. Tough, second growth mountain hickory. Hand split. Fully ironed and riveted. Varnished so you can see the straight grain quality, selected grade. Will hold up under tough, heavy loads. *Mailable.*

Article Number	Diam. in.	Length in.	Clips in.	Hooks in.	Straps in	Wt. lbs.	Price each
487 A 8849	2⅜	30	7/16	5/16	1 3/16	5	60c
487 A 8846	2⅜	30	5/16	⅜	½	6	74c
487 A 8848	2⅜	36	5/16	⅜	½	8	83c
487 A 8847	2¾	36	5/16	7/16	½	8	94c

29c EACH — FULLY IRONED NECKYOKES AND SINGLETREES



Implement Singletrees

Selected, straight grained, air seasoned Oak. Oiled for weather resistance. Diameter 2½ in., length 28 in. McPhail malleable iron drop hooks. Implement Singletrees of this quality regularly sell for around 50c. Order a supply now and be ready to meet field emergencies at a minute's notice. For mowers, binders, discs and other implements. Ship. wt. 3 lbs. *Mailable.*

487 A 8845—Each 29c

Strap End Singletrees

A tough, durable low priced singletree. Wood 2⅜-in. diameter, 28 in. long. Painted red. Extra heavy ⅜-inch ring. 5/16-in. hooks. ¾-in. wide strap. Made for long wear. Ideal for average all around use. *Mailable.*

487 A 8853—Shipping weight 4 pounds. Each 49c



Strap End Singletrees

Quality worthy of your confidence. Made from second growth, air seasoned, hand split hickory. Varnished. Heavy cast clip. Ship. wts. 7 and 4 lbs. *Mailable.*

487 A 8850—Diam. 2⅝ in. 36 in. long. 4 rivets. 2 tacks. Each 7
487 A 8851—Diam. 2⅜ in. 30 in. long. 4 rivets. Each 5



Hickory Wagon Neckyokes

$1.15 2⅝ in.

Long 17-in. center plates. Straight grained, select hickory. Strongly ironed. Varnished. 3½x3/16 in. center ring. *Mailable.*

Article No.	Size Wood	End Ring	Ferrules	Weight	Each
487 A 8857	2⅝x40 in.	⅜x3 in.	1⅜ in.	10 lbs.	$1.15
487 A 8858	2¾x44 in.	7/16x3 in.	1⅝ in.	12 lbs.	1.45
487 A 8859	3 x48 in.	7/16x3 in.	1¾ in.	13 lbs.	1.65

Your Money Back Without Hesitation If Not Satisfied. See Wards Guarantee in Index.

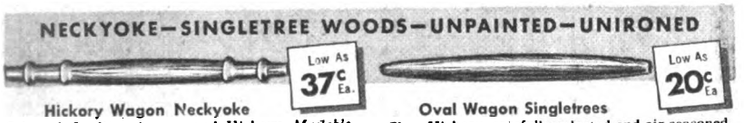


Wards Implement Neckyoke 63c

Low priced, serviceable Neckyokes. Made of seasoned hardwood. Painted Red. 2⅝-inches in diameter. 42 inches long. 3/16 by 4 inches at center ring. ⅜ by 3-inch end rings. *Mailable.* White woodstock by the 100 pound takes low freight rates. Order a supply now.

487 A 8856—Shipping weight, each, 7 pounds. .....
487 A 8861—Same as above but with double 7/16-inch eye bolt center. Shipping weight, each, 7 pounds. .....

NECKYOKE—SINGLETREE WOODS—UNPAINTED—UNIRONED



Hickory Wagon Neckyoke

Low As 37c Ea.

Selected Quality air seasoned Hickory. *Mailable.*

Article No.	Size In.	Wt. Each	Each	6 for
487 A 8925	2⅝x40	5 lbs.	37c	$2.10
487 A 8927	2¾x44	5 lbs.	52c	3.00
487 A 8928	3 x48	6 lbs.	68c	3.90

Oval Wagon Singletrees

Low As 20c Ea.

Clear Hickory, carefully selected and air seasoned.

Article No.	Size. In.	Wt. Each	Each	6 For
487 A 8931	2⅝x34	4 lbs.	32c	$1.80
487 A 8932	2¾x34	5 lbs.	37c	2.10
487 A 8933	3¼x40	6 lbs.	58c	3.30

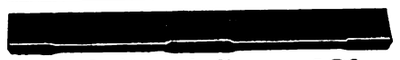
Hardwood Implement Neckyoke 27c Each

Smoothly finished . . . ready for varnishing or painting. *Mailable.*

Article No.	Size In.	Wt. Ea.	Each	6 for
487 A 8974	2⅝x36	4 lbs.	27c	$1.55
487 A 8978	2⅝x42	4 lbs.	30c	1.70

Oval Plow Singletrees—Clear Hickory

Article No.	Size. In.	Wt. Each	Each	6 For
487 A 8930	2⅜x28	3 lbs.	20c	$1.15
487 A 8934	2⅝x28	2 lbs.	30c	1.70
487 A 8935	3 x30	4 lbs.	42c	2.40



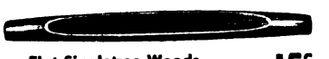
Strong Doubletrees for Plows 40c ea. lots of 6

Air seasoned tough Hickory; 4 sides surfaced. For irons see bottom of page.

Article No.	Size In.	Wt. Each	Each	6 for
487 A 8997	1¾x3¾x36	6 lbs.	42c	$2.40
487 A 8998	1¾x3¾x42	7 lbs.	48c	2.75

Doubletrees for Wagons

487 A 8995	2	x4 x48	7 lbs.	67c	$3.80
487 A 8993	2	x4½x48	10 lbs.	73c	4.15
487 A 8994	2	x5 x50	11 lbs.	85c	4.85
487 A 8996	2¼	x4½x48	13 lbs.	90c	5.15



Flat Singletree Woods 15c ea. lots of 6

Full sized, selected, straight grained, seasoned Oak. Smoothly finished—ready for painting or varnishing. 2⅛ in. in diameter. 28 in. long. Shipping wt. 3 lbs. *Mailable.*

487 A 9000—Each ..... 16c; 6 for 90c

Hickory Evener Woods

487 A 8972—Finished. State size wanted. 2 by 6 by 72 in. Ship. wt. 21 lbs. Each $1.60
2 by 6 by 84 in. Ship. wt. 25 lbs. Each 1.75

Order All the Woodstock You need on Time Payments and Save on Freight! See Inside Back Cover.

COMPLETE WOOD SETS FOR WAGONS—PLOWS—IMPLEMENTS



Strong Hickory Plow Set $1.75 Complete

Straight grained, air seasoned hickory with weather-resistant, clear varnish finish. Evener 1¾ by 3¾ by 42 in. Same fine quality strap-end singletrees as number 487 A 8851 described at top of page. *Mailable.*

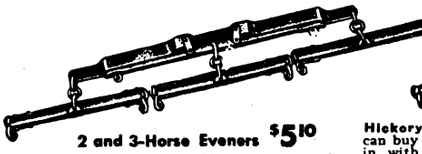
487 A 8865—Set. Shipping weight 18 lbs. $1.75
487 A 8862—42 in. ironed Evener only. Ship. wt. 8 lbs. 80c

Reinforced Hickory Wagon Sets

$3.95 SET

A wagon set that stands up on a tough pull. Very finest mad Evener is 2x4x48 inches with riveted ends. Steel plate, clev and stay chain rings. Full strap singletree same as No. 487 8848 above. Neckyoke 40 by 2⅝ in.; with extra long 17-i center plates. Has a smooth, clear varnish finish. *Mailable*

487 A 8892—Complete Set. Ship. wt. 40 lbs. $3.9
487 A 8890—Doubletree Set (no neckyoke). Wt. 29 lbs. 2
487 A 8860—Evener Only. 2x4x48. Ship. wt. 12 lbs. .... 1.



2 and 3-Horse Eveners $5.10

Combination evener—quickly changed from 2 to 3-horse hitch. Made from good quality straight grain seasoned oak. 28-inch strap end singletrees. Painted red. Can be used for any type of heavy duty field work. Shipping weight 40 lbs. *Not Mailable.*

187 A 8881—Complete Set. $5.10



Implement Sets $1.20 Oak

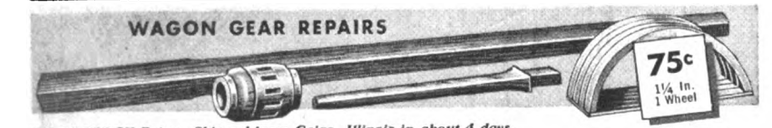
Hickory—One of the best implement sets that y can buy for such a low price. Singletrees 1¾x2½ in. with riveted ends. Evener 1¾x3⅜x36 in. Hea straps 1¼x⅛ in. bolted to singletrees. Varnish Shipping weight 16 pounds. *Mailable.*

487 A 8882—Set. .....

Oak—Similar to above except made of oak, 2⅝ singletrees, painted red. Straps riveted

487 A 8880—Shipping wt. 13 lbs. *Mailable* ....

WAGON GEAR REPAIRS



75c 1¼ In. 1 Wheel

WOODSTOCK Below Shipped from Cairo, Illinois in about 4 days.

Square Butt Oak Wagon Poles

287 A 8968—State size and grade. Grade 1 is extra quality, unpainted. Grd. 2 has a few minor defects, painted.

Size	Length	Wt.	Grd. 1	Grd. 2
3¼x3¼ in.	11 ft. 6 in.	35 lbs.	$2.45	$1.85
3½x3½ in.	11 ft. 6 in.	40 lbs.	2.79	2.00
4 x4 in.	11 ft. 6 in.	50 lbs.	3.35	2.70

Straight Mortise Oak Hubs

One end cupped. Length is overall. When ordering less than set state if front, 12 or rear 14 spokes.

287 A 8953—State diameter.

Diam.	Lgth.	Mortise, In.	Wt. Set	Set (4)
7	9	1⅝ x1 11/16	30 lbs.	$3.20
7½	10	1⅞ x1 11/16	35 lbs.	4.20
8	10¼	2 x3/4	40 lbs.	5.00
8½	11¼	2⅛ x1 11/16	50 lbs.	6.00
9	12¼	2¼ x1⅞	60 lbs.	6.75

Strong Finished Oak Wagon Spokes

Set is 52 for all 4 wheels. Spoke lengths, front 22 inches; hind, 26 inches.

287 A 8955—State width and length wanted.

Width at Tenon	Ship. Wt. Set of 52	Per Doz.	Per Set of 52
1½-in.	48 lbs.	$1.05	$4.20
1⅝-in.	51 lbs.	1.05	4.20
1¾-in.	54 lbs.	1.20	4.80
1⅞-in.	57 lbs.	1.30	5.20
2 -in.	61 lbs.	1.45	5.80
2⅛-in.	65 lbs.	1.60	6.40
2¼-in.	73 lbs.	1.70	6.80
2⅜-in.	82 lbs.	1.80	7.20
2½-in.	88 lbs.	2.20	8.80
2¾-in.	115 lbs.	3.00	12.00

Bent Oak Wagon Rims

Heights 30 to 48 in. Full set is 8 pieces for 4 wheels.

287 A 8956—State height, tread and depth. Measure diameter inside of steel tires. Rims are oversize. Trim rims to fit. *Not Mailable.*

Tread In.	Depth In.	Set Wt. Lbs.	Full Set	One Wheel
1¼	1½	40	$2.90	75c
1½	2	60	4.45	$1.15
1¾	2	70	5.25	1.35
1¾	2¼	80	6.00	1.55
2	2	80	5.45	1.40
2	2¼	85	6.60	1.70
2½	1¾	85	7.00	1.80
2½	2	100	7.00	1.80
3	1¾	120	7.40	1.90
3	2	130	8.15	2.10
4	2	160	11.30	2.90

WAGON WOODSTOCK Below Shipped from Factory Near Cairo, Ill. in about 4 days.

IMPORTANT: State if for narrow (56-in.) or wide (60-in.) track on items below. Unpainted.

Finished Hickory Axles

M287 A 8958—Semi-finished ends. With one priming coat. *Mailable.* State size and track.

2½x3½ in.	Ship. wt. 18 lbs. Ea.	$1.40
2¾x3¾ in.	Ship. wt. 21 lbs. Ea.	1.50
3 x4 in.	Ship. wt. 23 lbs. Ea.	1.70
3¼x4¼ in.	Ship. wt. 27 lbs. Ea.	2.10
3½x4½ in.	Ship. wt. 32 lbs. Ea.	2.55
3¾x4¾ in.	Ship. wt. 40 lbs. Ea.	2.70
4 x5 in.	Ship. wt. 45 lbs. Ea.	3.10

Finished Oak Sand Boards!

M287 A 8961—State size and track. *Mailable.*

3 by 3 inches. Ship. weight 10 lbs. Each	95c
3¼ by 3 inches. Ship. weight 13 lbs. Each ..	$1.10
3½ by 3 inches. Ship. weight 15 lbs. Each...	1.35
3¾ by 3¼ inches. Ship. wt. 19 lbs. Each.	1.80

Finished Oak Bolsters

State Article Number, s and track wanted. *Mailable.*

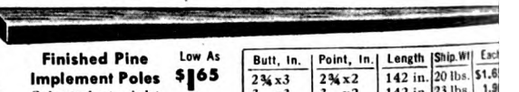
Size, In.	Ship. Wt. Lbs.	Front M287 A 8959	Rear M287 A 8960
3 x4	21	$1.10	$1.1
3¼x4½	25	1.45	1.4
3½x4½	28	1.85	1.8



Steam Bent Oak Hounds

Straight grained, steam bent. 2x3 in. at 48 in. long. Narrow track; 18 in. at end. Wide track; 22 in. at end, outside measurements. State size, track. Ship. wt. 15 lbs. *Not Mailable.*

287 A 8965—Each $2.50



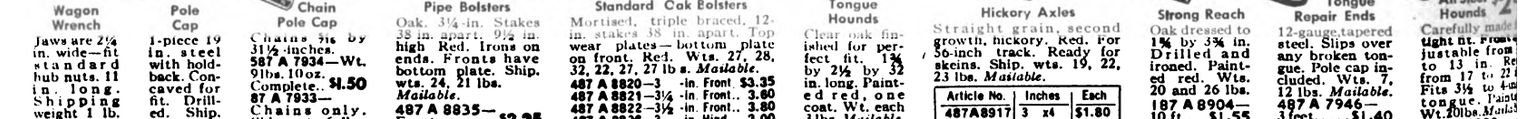
Finished Pine Implement Poles Low As $1.65

Selected straight grained, yellow pine.

Shipped from Factory near Cairo, Ill. in 4 days.

287 A 8969—Be sure to state butt size and length wanted. *Not Mailable.*

Butt, In.	Point, In.	Length	Ship. Wt	Each
2¾x3	2¾x2	142 in.	20 lbs.	$1.6
3 x3	3 x2	142 in.	23 lbs.	1.9
2¾x4	2¾x2½	142 in.	24 lbs.	1.9
3 x4	3 x2½	142 in.	26 lbs.	2.1
2¾x4	2¾x2½	154 in.	29 lbs.	2.2
2¾x4½	2¾x2½	154 in.	33 lbs.	2.7
3 x4½	3 x2½	154 in.	36 lbs.	2.9



Wagon Wrench

Jaws are 2¼ in. wide—fit standard hub nuts. 11 in. long. Shipping weight 1 lb. 12 oz.

87A7954—Each ... 25c

Pole Cap

1-piece 19 in. steel with hold-back. Concaved for fit. Drilled. Ship. wt. 2 lbs.

87 A 7945—Each . 24c

Chain Pole Cap

Chains 5/16 by 31½ inches.

587 A 7934—Wt. 9lbs. 10 oz. Complete.. $1.50

87 A 7933—Chains only. Ship. wt. 6 lbs. (no pole cap) $1.10

Pipe Bolsters

Oak. 3¼-in. Stakes 38 in. apart. 9½ in. high Red. Irons on ends. Fronts have bottom plate. Ship. wts. 24, 21 lbs. *Mailable.*

487 A 8835—Front. $2.25
487 A 8837—Hind 2.15

Standard Oak Bolsters

Mortised, triple braced, 12-in. stakes 38 in. apart. Top wear plates—bottom plate on front. Red. Wts. 27, 28, 32, 22, 27, 27 lbs. *Mailable.*

487 A 8820—3	-in. Front	$3.35
487 A 8821—3¼	-in Front..	3.80
487 A 8822—3¼	-in. Front..	3.80
487 A 8826—3	-in Hind	3.00
487 A 8827—3¼	-in. Hind .	3.30
487 A 8828—3½	-in. Hind .	3.60

Tongue Hounds

Clear oak finished for perfect fit. 1⅜ by 2½ by 32 in. long. Painted red, one coat. Wt. each 3 lbs. *Mailable.*

487A8945—Pair 89c

Hickory Axles

Straight grain, second growth, hickory. Red. For 56-inch track. Ready for skeins. Ship. wts. 19, 22, 23 lbs. *Mailable.*

Article No.	Inches	Each
487A8917	3 x4	$1.80
487A8918	3¼x4¼	2.20
487A8919	3½x4½	2.60

Strong Reach

Oak dressed to 1⅝ by 3¾ in. Drilled and ironed. Painted red. Wts. 20 and 26 lbs.

187 A 8904—10 ft... $1.55
187 A 8906—12 ft... $1.95

Tongue Repair Ends

12-gauge, tapered steel. Slips over any broken tongue. Pole cap included. Wts. 7, 12 lbs. *Mailable.*

487 A 7946—3 feet..... $1.40
487 A 7947—5 feet..... $1.95

All Steel Hounds $2

Carefully made tught nt. Proves justable from to 13 in. Re from 17 to 22 f Fits 3½ to 4-in tongue. Paint Wt. 20lbs. *Mail*

487 A 7900—Each..... $2.



McPhail Drop Hooks

Malleableiron. Pair is for one singletree. Wt. pr., 1 lb.

87 A 7915—1⅛ in. Pr. 10c
87 A 7916—1⅜ in. Pr. 12c

McPhail Stiff Hooks

Malleable iron. Open end diam. 1⅜ in.

87 A 7929—Shipping wt. 12 oz. Per pair 10c

Singletree Hooks

Save 30% at Wards. Malleable ferrule. Welded steel hook. Wt. pr., 1 lb. 8 oz.

87 A 7931—1⅜ in. Pair . 22c
87 A 7932—1½ in. Pair . 29c

Steel Center Clip and Ring

Fit Singletrees 2 to 3 in. Wt. about 1¼ lbs.

87 A 7920—7/16-in. Each..... 12c
87 A 7921—⅜-in. Each..... 16c
87 A 7922—⅝-in. Each..... 19c

Neckyoke Center

⅝ by 3½ in. welded ring. 7/16-in. eyebolts and ⅜-inch links.

87 A 7925—Wt. 2 lbs. 4 oz. Ea.. 32c

Neckyoke Ferrules

Malleable iron. 3 x ⅜-in. (small end) steel ring. Wt. each 12 oz.

87 A 7911—1⅜ in. Each 12c
87 A 7912—1½ in. Each 15c

Flat Straps and Hooks

Flat ¾-in. singletree straps with 5/16-in. hooks. Ship. wt. each 1 lb.

87 A 7938—Pair (2 each) straps and hooks for one singletree.... 18c

Heavy Round End Straps and Hooks

7/16-in. straps, ⅜-in. hooks. Shaped straps.

87 A 7935—Wt. 2¼ lbs. Pair (2 each) .. 23c
87 A 7936—Straps only. Wt. 1 lb. 8 oz. Pr.... 15c
87 A 7937—Hooks only. Wt. 12 oz. Pair. 10c

Heavy Loop End Straps and Hooks

Heavy shaped ½-in. straps with full 3/16-in. hooks. Our heaviest and finest set. Wt. pair 3 lbs. 4 oz.

87 A 7928—Pair (2 each) for one singletree 38c

Box of 40 Assorted Rivets

½-in. diam. 10 c of 2¼ and 3¼ with round he 10 ea. of 1⅝-in a 2⅜-in. flat head

87 A 7939—Sh wt. 1 lb. 14 oz. Box 40.....

STEEL CLEVISES



Flat Steel. Screw Pin. Curved end. Length is inside. 3/16-in. size has loose pin. Wt. 1 to 1¾ lbs.

Article No.	Steel	Sizes	Size	Each
87A7902	¼	x1⅛	2 x3½	14c
87A7903	¼	x1⅛	2¼ x4½	17c
87A7901	5/16	x1¼	2 x4	10c
87A7904	5/16	x1¼	2 x4½	11c

Forged Clevis Low As 20c

For tractors. ⅝ in. Round stock. 3/16-in. pin. Cut threads. Length is inside. Wt. 1 lb. 12 oz.

Article No	Sizes	In	Each
87 A 7943	2x3½		20c
87 A 7944	2x4½		22c
87 A 7948	2½x3		24c

Strong Clevis 40c

For tractors. Heavy ⅞-in. stock. 6½ in. long. 5 in. deep. 1½-in. opening. ¾-in. pin. Ship. wt. 3 lbs. 4 oz.

87 A 7971—Each 40c

Twist End 44c

Heavy tractor Clevis of ⅞-in. stock. 4½ in. deep. 1¼-in. opening, ¾-in. pin. Ship. wt. 3 lbs. 4 oz.

87 A 7972—Each..... 44c

Doubletre Clevises 12c

Cutthreads. Wt. 1¼, 2¼ lbs. Lgth. inside.

Art. No.	Size In	Ea.
87A7905	2 x3½	12c
87A7907	2½ x3½	14c
87A7906	2½ x4¾	17c
87A7908	2½ x6¾	23c
87A7909	3 x6½	25c

End Clevis 7c

Screw pin. Wt. abt 1 lb. Lgth. inside.

87 A 7913—¾ x 1¾ in. Each.... 7c
87 A 7914—1x2 in. Each 9c

Twist End 11c

Screw pin. Wt. 1¼ lbs. Length inside.

87 A 7918—2¼ in. deep, 3¾ in. long. Ea. 11c
87 A 7917—2½ in. deep, 4 in. long. Each. 15c

Cross Clevis

Av. wt. 1 lb. 4 oz.

87 A 7923—2¼-in. opening. 5¼-in. long. 6 holes.. 12c
87 A 7924—3⅛-in. opening. 6½ in. long. 8 holes.. 16c
87 A 7926—3⅝-in. opening 8¼ in. long. 10 holes.. 20c

Swivel Clevis 18c

Length 4⅝ in. ¾-in. opening. 1½-in. swivel opening. Wt. 1¼ lbs.

87A7919—Each.... 18c

WARDS MALLEABLE IRON CLEVISES



2½ In. Lap Links

For quick repairs Heavy steel Diameter is inside. 87A7973 State

Size	Wt. Oz.	Each
5/16 in.	8	6c
½ in.	10	8c
5/16 in.	14	13c
⅞ in.		

1150 WARDS BA

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